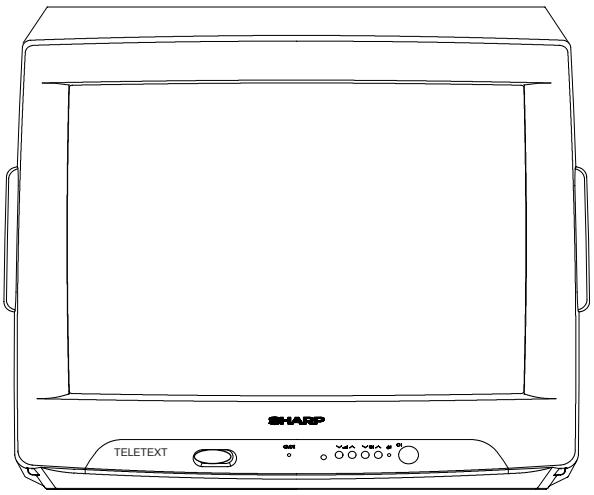
SHARP SERVICE MANUAL

SESG54GT25S00
Issued: 24nd Nov '00

GA-1 CHASSIS



PAL SYSTEM COLOUR TELEVISION

MODEL 54GT-25S

In the interests of user safety (required by safety regulations in some countries) the set should restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

This document has been published to be used for after sales service only.

SERVICE MANUAL UPDATE LOG SHEET

Technical Report # Technical Bulletin #	Cause / Solution	Part #	Page #	Application Data /Serial #

Use this page to keep any special servicing information as Thecnical Report (Bulletin), Technical Information, etc.
If only part number changes are required, just change part number directly on Part List Section.
If you need more information, please refer to the Technical Report (Bulletin).

ELECTRICAL SPECIFICATIONS

•Power Input .....220V-240 Volts AC 50Hz

•Power Consumption

Normal Operation.....52W
Stand-by Operation.....7.0W

•Audio Power Output Rating .....4W (MPO)

Speaker.....16Ω 4W, 10cm Round, 1pc

Convergence.....Self Converging System
Focus.....Bi-Potencial Electrostatic
Sweep Deflection.....Magnetic

•Picture Intermediate Frecuency.....38.9MHz

•Sound Carrier Trap.....33.4MHz

•Adjacent Sound Carrier Trap.....40.4MHz

•Adjacent Picture Carrier Trap.....31.9MHz

•Aerial Input Impedance
VHF/UHF.....75 ohm Unbalanced

•Tuning Ranges .....48.25MHz thru 855.25 MHz
VHF.....CH02-CH12, S1-S41
UHF.....CH21-CH69

•White Level

Set the brightness control, with no signal connected, so that the CRT cathode current is 600mA. The maximum correction applied to each cathode current to achieve a screen temperature of 8950 degrees K-20 MPCD should not exceed 15% of its original value.

X=0.290 Y=0.300

Specifications are subject to change without prior notice.

WARNING

The chassis in this receiver is partially live, always use an isolation transformer when servicing this chassis.
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

IMPORTANT SERVICING NOTES

Only qualified service personnel are allowed to carry out mintenance and repair of this receiver.

SERVICING OF HIGH VOLTAGE SYSTEM AND CRT

It is important that the static charge is removed from the high voltage system when carrying out work on the receiver. This can be achieved by connecting a 10K resistor (with a suitably insulated lead) from the CRT cavity connector to the CRT ground tag. This must be carried out with the AC supply disconnected from the reciver.

Note the following:

- The CRT in this receiver employs Integral Implosion Protection.
- If the CRT has to be changed it MUST be replaced with the correct type for continued safe working
- DO NOT lift the CRT by its neck.
- When handing the CRT, ensure that shatterproof goggles are worn.
- Ensure that the CRT is discharge before handling.

X-RAY

This receiver is designed to keep any x-ray emission to an absolute minimum. Some fault conditions and servicing procedures may produce potentially hazardous x-ray radiation levels. This is a problem when in close proximity to the receiver for long periods of time. To reduce any risks associated with this, please observe the following precautions:

1. When undertaking any servicing on this chassis, DO NOT increase the EHT to more than 29.5 KV, (at a instantaneous beam current of 1000μA).
2. Ensure that during normal operation the EHT does not exceed 27.5KV±1.5KV (at a beam current of 800μA). Tjis level has been pre-set in the factory. Always check that this level has not been exceeded after carrying out any repair on the receiver..
3. DO NOT replace the CRT with any other type than that specified in the parts listing as this may cause excessive x-ray radiation.

BEFORE RETURNING THE RECEIVER TO THE CUSTOMER

In addition to the above checks, the following should also be carried out before returning the receiver to the customer.

1. Inspect all the leads to ensure that they are dressed correctly and that they are not obstructed or pinched by any other parts.
2. Ensure that all protective devices are in good condition. These will include non-metallic control knobs, insulating fish papers, cabinets backs, compartment covers or shieds, mechanical insulators, etc.

SERVICE ADJUSTMENT

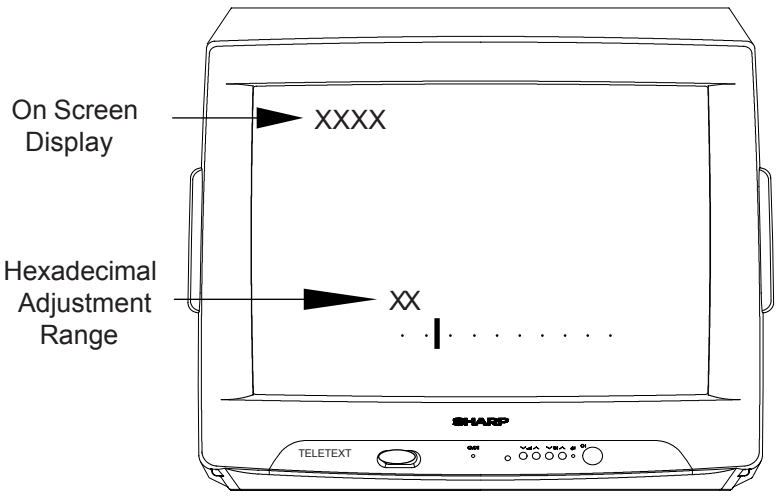
•SERVICE MODE FUNCTION

1. Connect a test pattern to the antenna terminal.
2. Tune the receiver to this signal.
3. Turn the receiver off using the mains switch.
4. Press the volume down and channel up buttons on the front of the receiver at the same time.
5. Keeping these buttons pressed, turn the mains on.
6. When the set starts up it will be in service mode.
7. Release the two buttons.

- Use the channel up and down buttons to move between the options.
- Use the volume control buttons to change the data.
- The data is stored automatically when the service mode is exited or at switch off.
- To exit the service mode, press the standby or menu button on the remote control.

On Screen Display	Hexadecimal Adjustment Range	Function
-SERV-		Indicates operative Service Mode
AGC	00~ 3F	Auto Gain Control
AFT	00 ~ 7F	Auto Frequency Control
H-SHIFT	00 ~ 3F	Horizontal Shift
V-SHIFT	00 ~ 3F	Vertical Shift
V-AMPL	00 ~ 3F	Vertical Amplitude
V- SLOP	00 ~ 3F	Vertical Symmetry
S-CORR	00 ~ 3F	S Correction
Y-DLY	00 ~ 3F	Luminance/Chrominance Delay
GAIN R	00 ~ 3F	Red Gain
GAIN G	00 ~ 3F	Green Gain
GAIN B	00 ~ 3F	Blue Gain
NVM	00 ~ FF	NVM Data Change

To ensure correct operation of the AFT, this must be adjusted to 40.



Adjustment of Data within the NVM memory

To access the NVM memory, press the channel up button on the remote control until the NVM setting is reached. Note that the NVM address is shown in green and the NVM value is shown in red.
Each of the NVM values are stored as a hexadecimal code, each code comprises of two hexadecimal numbers. Each of these numbers will break down into bit four binary code as in the example below.

Hex code	A	5
Binary code	1010	0101
Button on remote to toggle Bit	7654	3210

In the example given above, the hexadecimal code is A5, the binary equivalent is 1010 0101. The remote control button to toggle each bit on or off (1 or a 0) is shown below the binary code. Therefore to change this to A6, remote control buttons 1 then 0 would have to be pressed.

NVM LIST DESCRIPTION

PAGE	ADDRESS	DESCRIPTION	VALUE
0	00	RTEMP: TEMPERATURE RED	15
	01	GTEMP: TEMPERATURE GREEN	13
	02	BTEMP: TEMPERATURE BLUE	0B
	03	VSHIFT: VERTICAL SHIFT	38
	04	HSHIFT: HORIZONTAL SHIFT	1C
	05	VTAMP: VERTICAL AMPLITUDE	35
	06	VSLOPE: VERTICAL SLOPE	10
	07	Y_DELAY: LUMA DELAY	08
	08	Y_DELAY_S: LUMA DELAY SECAM	08
	09	S_CORR: S-CORRECTION	00
	0A	E_CAG : CAG ADJUSTEMENT VALUE	0B
	0B	EA_OPT: TV OPTIONS 0: FP: SYSTEM B/G (0)- B/G+L, MESSAGE RECHERCHE 1: AV FRONTAL: NOT INCLUDED(0), INCLUDED(1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1(1) NO LOCKED (0) 3: UHF-ONLY: BAND UHF(1) ALL BANDS(0) 4: PAL ONLY(1), PAL+ SECAM(0) 5: CHILD LOCK: CHILD LOCK ACTIVE(1) CHILD LOCK NO ACT(0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_ENGLISH(1) OSD-SYMBOL(0)	70
	0C	EAFT: AFT ADJ FOR B/G & L SYSTEMS	40
	0D	EAFT_: AFT ADJ FOR L' SYSTEMS	1F
	0E	EVOLMAX: MAX. VOLUME LIMIT	FF
	0F	CHECKSUM: SIGNATURE	A5
	10	RTEMP2: TEMPERATURE RED	15
	11	GTEMP2: TEMPERATURE GREEN	13
	12	BTEMP2: TEMPERATURE BLUE	0B
	13	VSHIFT2: VERTICAL SHIFT	38
	14	HSHIFT2: HORIZONTAL SHIFT	1C
	15	VTAMP2: VERTICAL AMPLITUDE	35
	16	VSLOPE2: VERTICAL SLOPE	10
	17	Y_DELAY2: LUMA DELAY	08
	18	Y_DELAY_S2: LUMA DELAY SECAM	08

PAGE	ADDRESS	DESCRIPTION	VALUE
0	19	S_CORR2: S-CORRECTION	00
	1A	E_CAG2: CAG ADJUSTEMENT VALUE	0B
	1B	EA_OPT2: TV OPTIONS 0: FP: SYSTEM B/G (0)- B/G+L, MESSAGE RECHERCHE 1: AV FRONTAL: NOT INCLUDED(0), INCLUDED(1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1(1) NO LOCKED (0) 3: UHF-ONLY: BAND UHF(1) ALL BANDS(0) 4: PAL ONLY(1), PAL+ SECAM(0) 5: CHILD LOCK: CHILD LOCK ACTIVE(1) CHILD LOCK NO ACT(0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_ENGLISH(1) OSD-SYMBOL(0)	70
	1C	EAFT2: AFT ADJ FOR B/G & L SYSTEMS	40
	1D	EAFT2_L: AFT ADJ FOR L' SYSTEMS	1F
	1E	EVOLMAX2: MAX. VOLUME LIMIT	FF
	1F	CHECKSUM: SIGNATURE	A5
	20	RTEMP3: TEMPERATURE RED	15
	21	GTEMP3: TEMPERATURE GREEN	13
	22	BTEMP3: TEMPERATURE BLUE	0B
	23	VSHIFT3: VERTICAL SHIFT	38
	24	HSHIFT3: HORIZONTAL SHIFT	1C
	25	VTAMP3: VERTICAL AMPLITUDE	35
	26	VSLOPE3: VERTICAL SLOPE	10
	27	Y_DELAY3: LUMA DELAY PAL	08
	28	Y_DELAY_S3: LUMA DELAY SECAM	08
	29	S_CORR3: S-CORRECTION	00
	2A	E_CAG3: CAG ADJUSTEMENT VALUE	0B
	2B	EA_OPT3: TV OPTIONS 0: FP: SYSTEM B/G (0)- B/G+L, MESSAGE RECHERCHE 1: AV FRONTAL: NOT INCLUDED(0), INCLUDED(1) 2: TUNING LOCK (HOTEL): LOCKED+SWITCH-ON PR1(1) NO LOCKED (0) 3: UHF-ONLY: BAND UHF(1) ALL BANDS(0) 4: PAL ONLY(1), PAL+ SECAM(0) 5: CHILD LOCK: CHILD LOCK ACTIVE(1) CHILD LOCK NO ACT(0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_ENGLISH(1) OSD-SYMBOL(0)	70
	2C	EAFT3: AFT ADJ FOR B/G & L SYSTEMS	40
	2D	EAFT3_L: AFT ADJ FOR L' SYSTEMS	1F
	2E	EVOLMAX3: LMAX. VOLUME LIMIT	FF
	2F	CHECKSUM: SIGNATURE	A5
	30	FT1_I_NVM-T1_I_NVM-1: LENGTH TABLE	FF
	31	CHECKSUM: SIGNATURE 1	A5
	32	EAGING,AGING_ON (AGING MODE)	FF
	33	VOLOFFSET: VOLUME OFFSET	05
	34	EAVOL: VOLUME VALUE (DECIMAL)	17
	35	CONT: CONTRAST	33
	36	COLOR: COLOR SATURATION	17
	37	BRIGHT: BRIGHTNESS	1F
	38	LUPK: 0,0,P5,P4,P3,P2,P1,P0 LUMA PEAKING VALUE LUPK	22
	39	E_P_ACT: CURRENT PROGRAMME	01
	3A	E_START: TV STATUS	00

PAGE	ADDRESS	DESCRIPTION	VALUE
0	3B	N_HUE: HUE CORRECTION	07
	3C	CONT2: CONTRAST	33
	3D	COLOR2: COLOR SATURATION	17
	3E	BRIGHT: BRIGHTNESS	1F
	3F	LUPK2: 0,0,0,0,0,P2,P1,P3 LUMA PEAKING VALUE LUPK	22
	40	DK_OPTION: OPTION FOR DK SYSTEM [X X X X X X X DK_S]	00
	41	HCR1_NVM: END OF HORIZONTAL CLAMP PULSE	13
	42	OSD_WORD: OSD STATUS (1=RT/0=OT,1=NO WHITE BARS IN MENU CLOCK-D.C.-,PIN OPTION,R830-D.C.-, FRONT LOCK,AV LOCK, E_NORMALIZADO PICTURE)	01
	43	OP_TXT_SYS: TELETEX SYSTEMS OPTIONS (X X X X X X FLOF TOP)	02
	44	HCR0_NVM: BEGINING OF HORIZONTAL CLAMP PULSE.	00
	45	EVTH_L: L-L' VOLTAGE	1F
	46	EVTL_L: L-L' VOLTAGE	1F
	47	SDV0_TXT: VERTICAL SYNC DELAY FOR TXT.	1F
	48	S_SPEED: SEARCH SPEED FOR ALL BANDS	0F
	49	SU_SPEED: SEARCH SPEED FOR UHF	5 A
	4 A	SVL_SPEED: SEARCH SPEED FOR VHL	0F
	4B	SVH_SPEED: SEARCH SPEED FOR VHH	3C
	4C	L_RANGE: RESERVED	2F
	4D	EPSW: PASSWORD ACTIV	00
	4E	EPSW1: PASSWORD 1R DIGIT	00
	4F	EPSW2: PASSWORD 2§ DIGIT	00
	50	EPSW3: PASSWORD 3R DIGIT	00
	51	EPSW4: PASSWORD 4§ DIGIT	00
	52	LANGUAGE: CHARACTER SET (FOR TXT)	01
	53	OSD_WORD1: bit 0: SIZE OSD PROG: 0=14", 1=21" bit 1: TIMING FOR OSD ON SCREEN bit 2: CHARACTER SET FOR TXT ENABLED (MENU)	01
	54	HOTEL: FOR HOTEL MODE 2 : FRONTAL BUTTONS DISABLED, SWITCH ON WITH SSW PULSE	00
	55	IFS_SCRT: CONTROL FOR IFS IN SCART MODE.	01
	56	HOTEL2: HOTEL MODE FOR S.E.I.S. VCR CONSTANT FOR ALL PROGRAMS	00
	57	B_CONTROL2: OSO,VSD,CB,BLS,BKS,CS1,CS0,BB	9 A
	58	B_CONTROL3: HOB,BPS,ACL,CMB,AST,CL2,CL1,CL0	24
	59	V_ZOOM: VERTICAL ZOOM	0D
	5 A	V_SCROLL: VERTICAL SCROLL	20
	5B	B_CONTROL0: INA,INB,INC,CCC_D,FOA,FOB,XA,XB	1 A
	5C	B_CONTROL1: FORF,FORS,DL,STB,POC,CM2,CM1,CM0	C0
	5D	B_CONTROL5: EVG,HCO,LBM,VID,STM,NCIN,VIM,AKB	26
	5E	B_CONTROL6: IFS,AFW,IE_1,COR,RBL,MAT,PRD,SBL	3C
	5F	B_CONTROL7: 0,0,0,HBL,GAI,IE_2,DS,DSA	00
	60	V_SCCON: SANDCASTLE CONTROL REGISTER	00
	61~ FF	RESERVED	---
1	00 ~ 9F	RESERVED	---
	A0	PAGE MEMORY FOR LIST MODE PROGRAM 0	10
	A1		02
	A2		00
	A3		30
	A4		04
	A5		00

PAGE	ADDRESS	DESCRIPTION	VALUE
1	A6	PAGE MEMORY FOR LIST MODE PROGRAM 1	10
	A7		02
	A8		00
	A9		30
	AA		04
	AB		00
	AC	PAGE MEMORY FOR LIST MODE PROGRAM 2	10
	AD		02
	AE		00
	AF		30
	B0		04
	B1		00
	B2	PAGE MEMORY FOR LIST MODE PROGRAM 3	10
	B3		02
	B4		00
	B5		30
	B6		04
	B7		00
	B8	PAGE MEMORY FOR LIST MODE PROGRAM 4	10
	B9		02
	BA		00
	BB		30
	BC		04
	BD		00
	BE	PAGE MEMORY FOR LIST MODE PROGRAM 5	10
	BF		02
	C0		00
	C1		30
	C2		04
	C3		00
	C4	PAGE MEMORY FOR LIST MODE PROGRAM 6	10
	C5		02
	C6		00
	C7		30
	C8		04
	C9		00
	CA	PAGE MEMORY FOR LIST MODE PROGRAM 7	10
	CB		02
	CC		00
	CD		30
	CE		04
	CF		00
	D0 ~ FF	RESERVED	FF

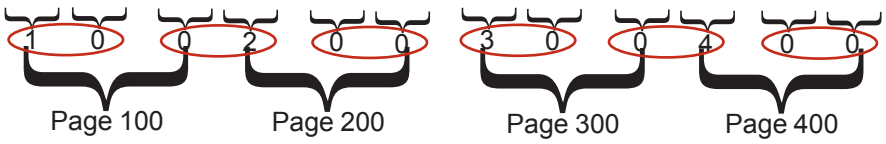
DEFAULT LIST MODE PAGES MEMORIZATION NOTE:

In page memory for LIST MODE, every digit is written in one nibble (4 bits).
The default values for programs 0~7 are as follows: 100, 200, 300, 400.

Example: Program 0

NVM Position: A0 A1 A2 A3 A4 A5

NVM Value:



•PIF/AGC Adjustment

1. AFT Adjustment

AFT must be adjusted to a fixed value of 40.

2. RF-AGC Cut-In Adjustment (I2C BUS)

1. Receive the «COLOUR BAR» signal (Channel E-12). Signal strength: 57 dBμV.
2. Enter into Service Mode.
3. Push CH ∧ until AGC appears on screen.
4. Push ○┬┐ key of R/C.Setting is made automatically. During this setting the colour bar shall go from red to yellow. When setting is finished, colour bar disappears and B-STOP (bus stop)is shown on screen.
5. Switch set OFF and ON again, setting is now memorized.

•Screen Adjustment

3. Focus Adjustment

1. Apply mains voltage of 220V AC/50HZ to TV.
2. Receive Philips pattern signal to a level between 60 and 80 dBμV.
3. Set contrast to 10/10, brightness to 5/10 and colour 0/10.
4. Adjust focus potentiometer to obtain maximum definition.

4. G2 Adjustment

1. Apply mains voltage of 220V AC/50HZ to TV.
2. Receive the «MONOSCOPE» pattern signal to a level between 60 and 80 dBμV.
3. Enter into Service Mode. Press the TEXT key of R/C and set to level.
4. Set to the point where the raster disappears on the screen VR of FBT.
5. Check BKGD. If it is necessary adjust BKGD according to instructions detailed in the next page.

•GEOMETRY ADJUSTMENT PROCEDURE

1. HOR SHIFT

a) Receive Philips pattern signal.

b) When ◿ ∧ button is pressed, picture moves to the left.

c) When ∨ ◿ button is pressed, picture moves to the right.

d) Adjust the horizontal location to obtain picture centering (Fig.1).

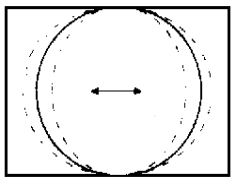


Fig. 1

2. VERT SHIFT

a) Receive Philips pattern signal.

b) When ◿ ∧ button is pressed, picture moves up.

c) When ∨ ◿ button is pressed, picture moves down.

d) Adjust the vertical location to obtain picture centering (Fig.2).

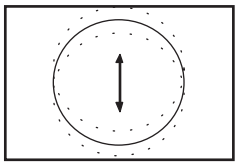


Fig. 2

3. VERT AM

a) Receive Philips pattern signal.

b) When ◿ ∧ button is pressed, vertical size of picture increases.

c) When ∨ ◿ button is pressed, vertical size of picture decreases.

d) Adjust the vertical size to obtain picture overscan (Fig.3).

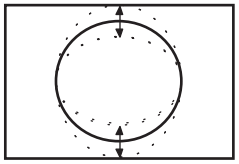


Fig. 3

4. VERT SLOP

a) Receive Philips pattern signal.

b) When ◿ ∧ button is pressed, upper picture scanning decreases and lower picture scanning increases.

c) When ◿ ∨ button is pressed, upper picture scanning increases and lower picture scanning decreases.

d) Adjust the vertical symmetry to obtain symmetrical scanning between upper and lower picture (Fig.4).

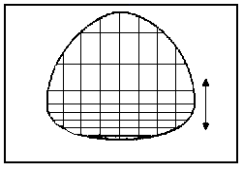


Fig. 4

•COLOUR ADJUSTMENT PROCEDURES

1. Y-DLY

a) Receive Philips pattern signal.
b) When ◿ ∧ button is pressed, luma phase delays.
c) When ∨ ◿ button is pressed, chroma phase delays.
d) Adjust the chroma-luma delay.

2. «B-GAIN», «G-GAIN», «R-GAIN»

a) Adjust G2.
b) Tune a white pattern
c) Adjust colour to minimum.
d) Position colourmeter in the center of screen.
e) Using brightness and contrast buttons, select a luminance of »120 nits.
f) Operate again in Service Mode and select location R-GAIN and B-GAIN to obtain colour coordinates:

X = 0.290 ± 0.015
Y = 0.300 ± 0.015

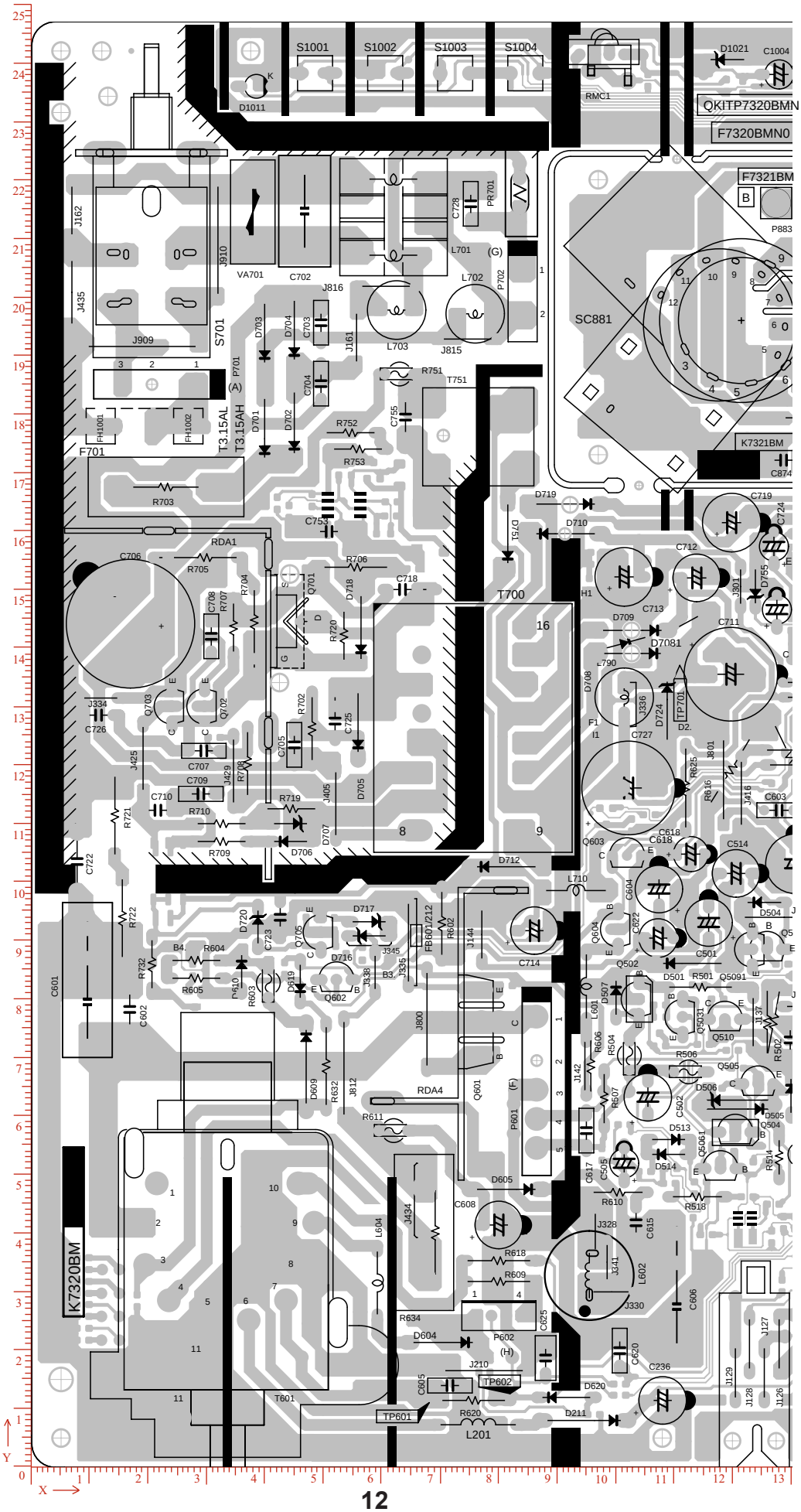
g) Exit Service Mode and check colour coordinates «X» and «Y» at 20 and 120 nits. It may be necessary to repeat the same procedure or re-adjust the cuts as show the be below one.

NOTE: Locations «R» alter «X» coordinates; «G» alter «Y» coordinates; «B» alter «X» and «Y» coordinates.

ALTERNATIVE CRT:
See below detailed information in order to adapt from THOMSON ↔ PHILIPS CRT.

PARTS REF.	THOMSON CRT		PHILIPS CRT	
	PARTS CODE	DESCRIPTION	PARTS CODE	DESCRIPTION
CRT	VB51EFS83912E	21" CRT	VB51EAL15511N	21" CRT
R609	VRN-VV3ABR82J	0.82Ω 1W	VRN-VV3AB3R3J	3.3Ω 1W
C606	RC-FZ6394BMNJ	390nF 250V	RC-FZ6474BMNJ	470nF 250V
(F) wire			CSOCN0460BMV4	(F)
NVM data	Data 24	Address 58	Data 22	Address 58

F 7320NOB PRINTED WIRING BOARD. Components side.



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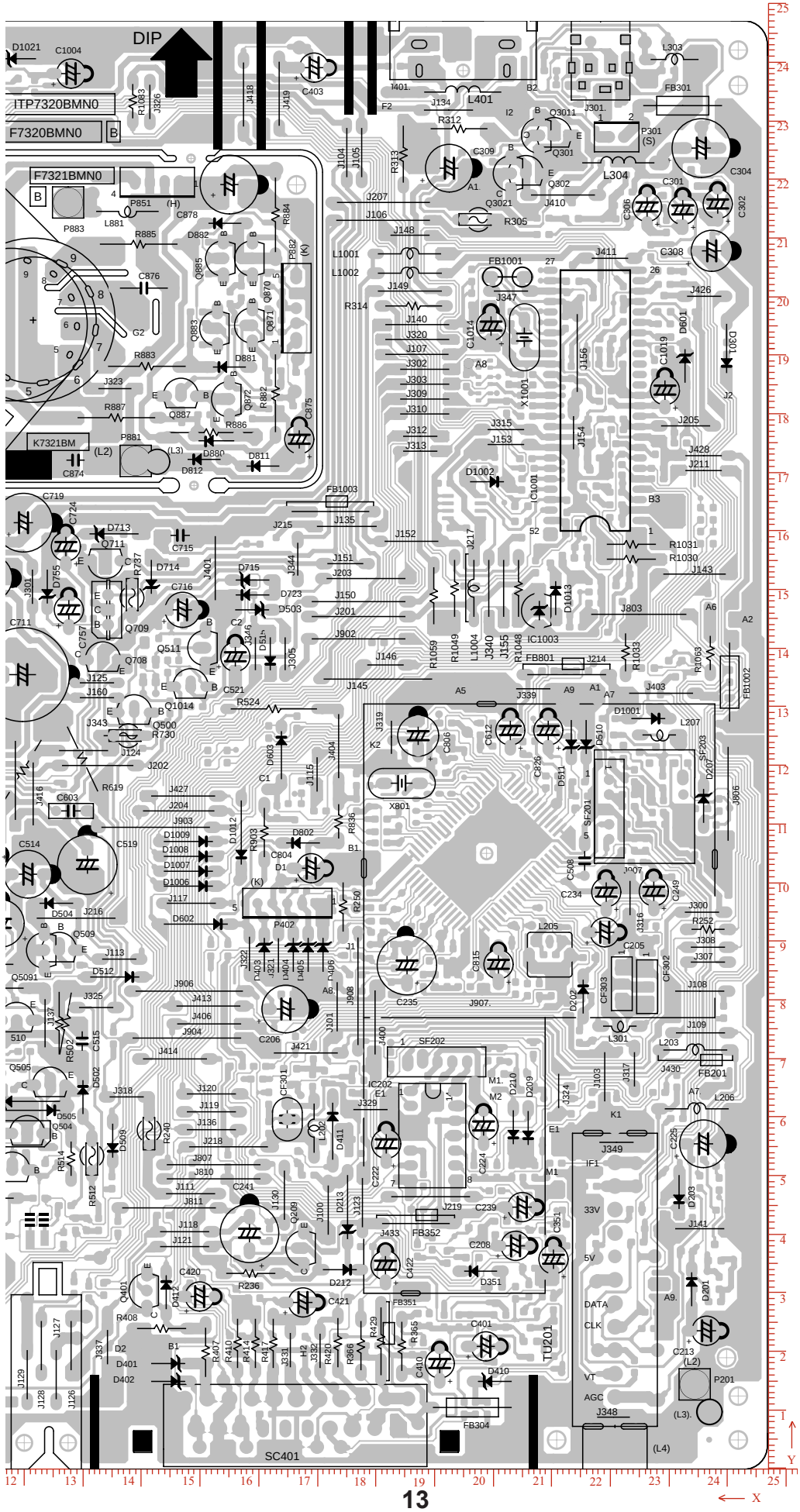
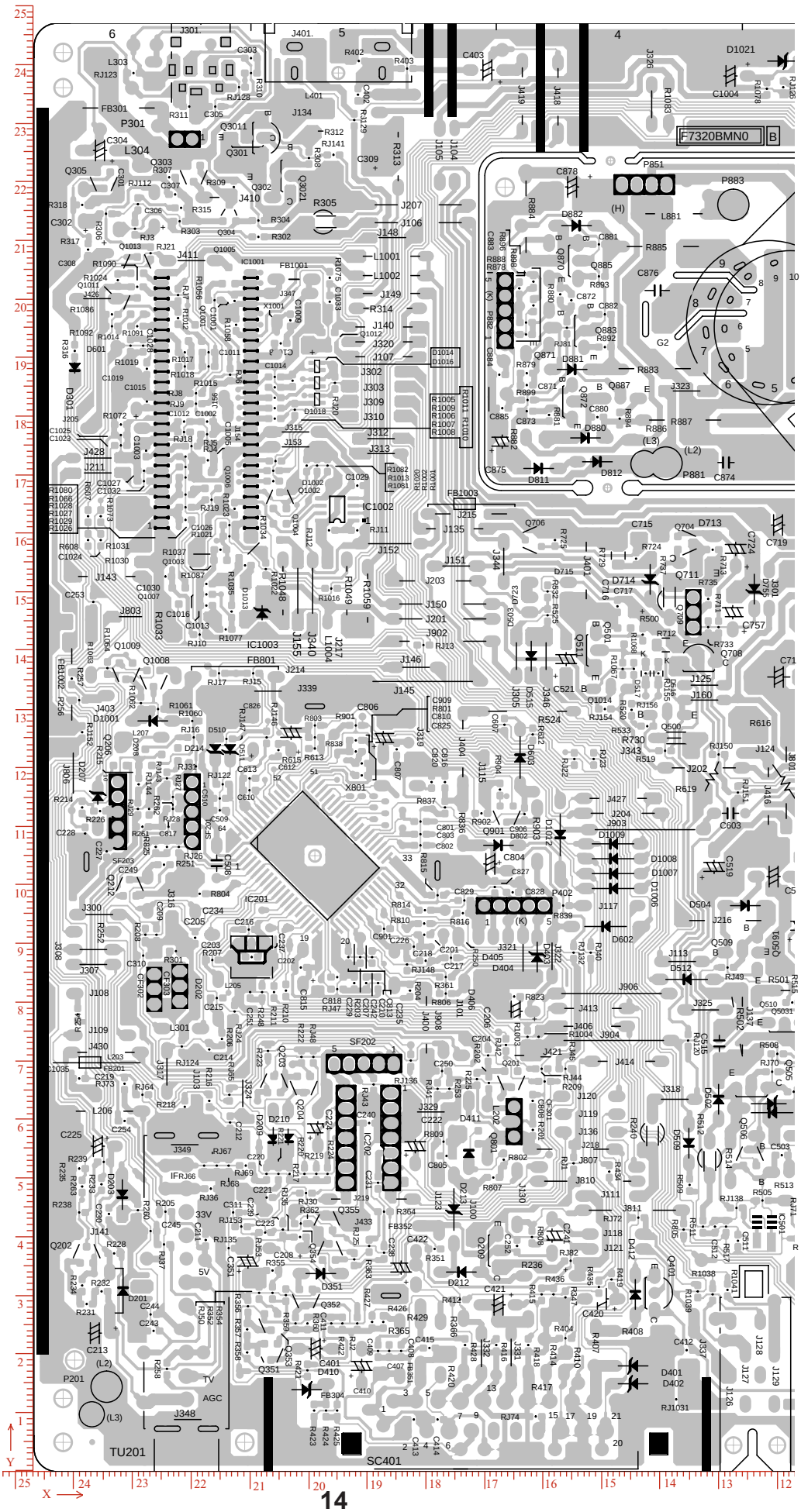
F 7320NOB PRINTED WIRING BOARD. Components side.



F 7320NOB PRINTED WIRING BOARD. Copper side.



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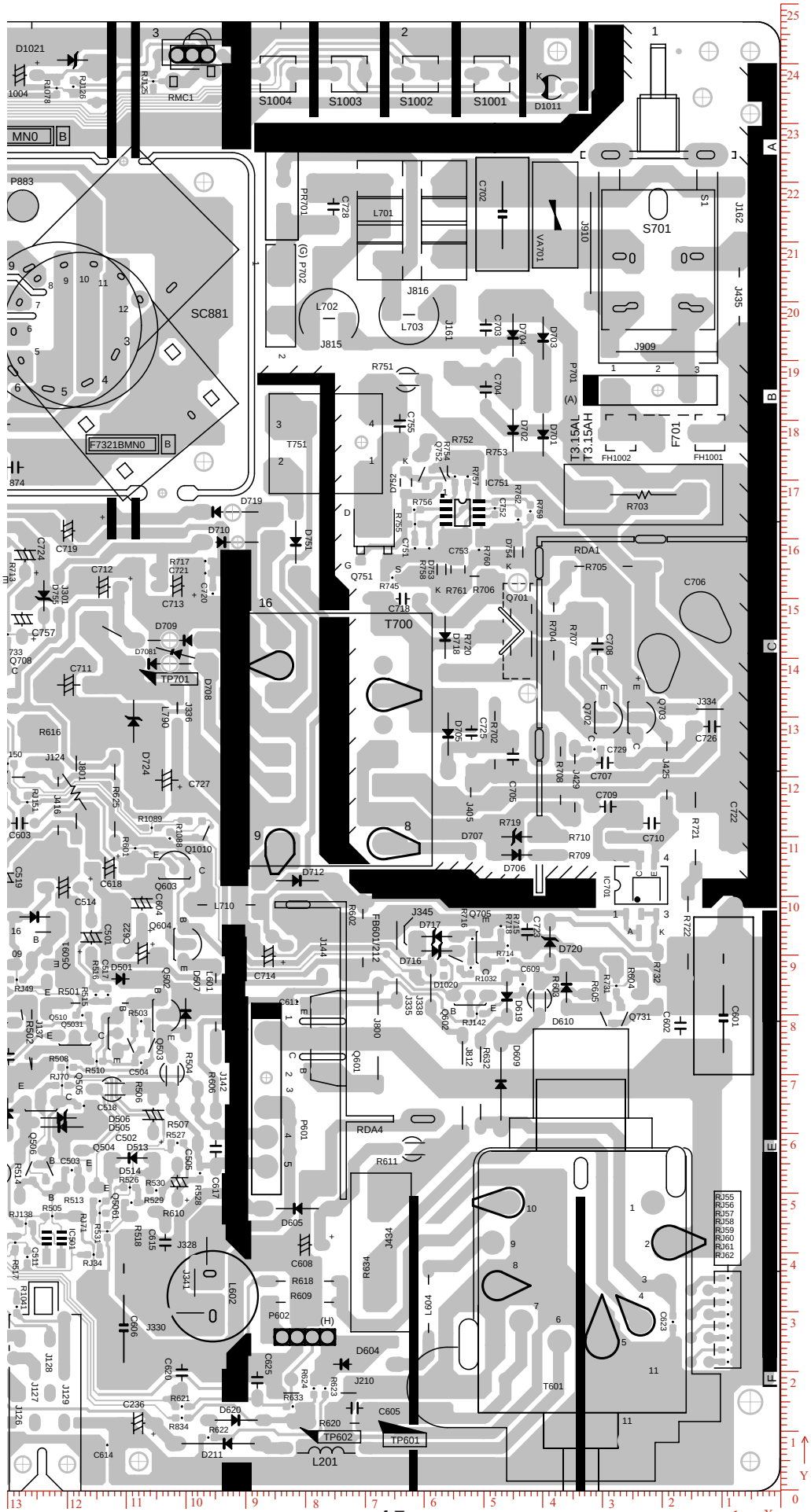
F 7320NOB PRINTED WIRING BOARD. Copper side.



F7320N0B PWB PARTS ALLOCATION TABLES (component side):

Ref No	Xmm	Ymm
(L3)	142748	171831
(L3).	237109	9779
(L4)	229362	6223
A1	215773	132207
A1.	198755	218821
A2	241300	145034
A5	196596	134112
A6	237236	145288
A7	218059	131191
A7.	236601	64262
A8	195961	188595
A8.	170053	81407
A9	212471	131191
A9.	229489	31496
B1	143256	20574
B1.	174498	104013
B2	205105	233553
B3	227584	163576
B3.	61341	86487
B4.	27559	88773
C1	161544	115951
C1004	128016	237998
C1014	199771	194945
C1019	229489	184023
C2	153924	144272
C205	219202	91567
C206	164719	78486
C208	203962	38100
C213	236601	23622
C222	181864	55499
C224	198501	58547
C225	236093	55499
C234	219456	98425
C235	185420	85979
C236	108077	11430
C239	205105	44704
C241	158496	40259
C249	227584	98552
C301	232537	214757
C302	238506	215773
C304	235712	225298
C306	226441	215265
C308	237490	207772
C309	192659	221869
C351	210439	35814
C401	198882	20955
C403	169545	239014
C410	191008	18034
C420	149987	29464
C421	167640	28448
C422	181737	34798
C501	115951	93091
C502	105537	63246
C505	101473	51943
C508	215773	103759
C514	120650	101473
C515	129921	73025
C519	130809	103124
C521	156083	138557
C601	9525	79502
C602	16764	78232
C603	128016	112268
C604	107442	98806
C605	71628	13970
C606	110490	27432
C608	80010	41402
C612	203073	125984
C615	103505	41783
C617	94996	57531
C618	112903	104775
C620	100711	19939
C622	107315	90424
C625	88011	18669
C702	46736	214630
C703	49530	195580
C704	49530	185166
C705	44958	123444
C706	16891	144145
C707	29464	122428
C708	30734	141986
C709	28956	115062
C710	21590	112268
C711	119761	135509
C712	113919	151968
C713	101473	152146
C714	86106	91694
C715	146685	159258
C716	147066	146558
C718	63500	149987
C719	119888	161417
C722	7747	103505
C723	42545	93980
C724	127127	157353
C725	51943	127508
C726	11430	128524
C727	102235	116078
C728	75184	215900
C753	50927	159893
C755	64008	179451
C757	127635	146558
C804	169037	102489
C806	187325	125095
C815	201041	86106
C826	209550	125984
C874	128778	172085
C875	167005	175641
C876	140462	201422
C878	155067	219075
CF301	164973	59690
CF302	226441	82296
CF303	222123	82804
D1	163957	100584
D1001	226695	128016
D1002	199136	168402
D1006	148082	99441
D1007	148082	101981
D1008	148082	104521
D1009	148082	107061
D1011	38481	235966
D1012	157099	108585
D1013	210820	148590
D1021	119126	240538
D2	139192	20828
D2.	113411	128016
D201	234061	30734
D202	215519	80645
D203	231902	47244
D207	236093	113157
D209	206121	58166
D210	203581	58293
D211	94615	8001
D212	173990	34036
D213	175260	44704
D301	240030	191135
D351	197993	33782
D401	144653	18034
D402	144653	14986
D403	161036	87757
D404	165989	87757
D405	168529	87757
D406	171069	87757
D410	200406	14986
D411	172720	57658
D412	144272	30226
D501	113157	86106
D502	130048	63500
D503	159004	146558
D504	125476	96520
D505	120904	61976
D506	120904	61976
D507	100076	80264
D509	135128	56007
D510	216027	124841
D511	213487	124841
D512	135509	83947
D513	109093	56007
D514	109093	53467
D515	162052	139065
D601	232918	188214
D602	149352	92964
D603	163957	121793
D604	70485	21336
D605	81280	47498
D609	46990	68453
D610	35941	84709
D619	45974	83058
D620	91567	11938
D701	39878	177546
D702	44958	178308
D703	39878	193802
D704	44958	194310
D705	55880	127254
D706	44323	106934
D707	44323	109982
D708	102743	139065
D709	102870	143002
D710	91440	159512
D712	81280	102616
D713	135382	159512
D714	141732	152146
D715	159004	151638
D716	57785	90805
D717	57785	93218
D718	56388	143510
D719	91440	164592
D720	38735	92329
D723	159004	149098
D724	108839	129413
D751	81534	159512
D755	123952	150495
D802	167640	106807
D811	160782	171069
D812	150749	172212
D880	152781	176276
D881	155067	187960
D882	154305	212471
E1	211328	54864
E1.	182880	63246
F1	98552	124968
F2	181991	234823
F701	19304	177927
FB1001	202565	203327
FB1002	240538	134239
FB1003	164846	164973
FB201	228854	69723
FB301	232537	232537
FB304	196596	10541
FB351	182372	14605
FB352	180213	43307
FB601/	65913	82296
FB801	205232	137287
FH1001	8636	181102
FH1002	23749	180975
G2	139065	196596
H1	96520	146558
H2	168021	16510
I1	95377	123063
I2	205105	231013
IC1001	217551	182245
IC1003	208026	146431
IC202	189865	56896
IC701	22479	99822
J1	177038	91694
J100	171958	44196
J101	173482	78867
J103	219202	66929
J104	175133	224536
J105	177673	224536
J106	181356	212979
J107	187198	190119
J108	235458	81534
J109	235585	74422
J111	148463	46990
J113	136271	86995
J115	170053	118491
J117	148590	96520
J118	147447	40513
J119	152019	60960
J120	152019	64008
J121	147447	37973
J123	177800	45466
J124	130174	122555
J125	132461	134112
J126	128016	21082
J127	125476	16129
J128	122936	21082
J129	120523	16129
J130	164465	46736
J134	192532	231775
J135	175133	160782
J136	152019	57912
J137	123571	76073
J140	187198	195199
J141	235458	41021
J142	94996	68580
J143	234569	152654
J144	77089	91059
J145	180467	134747
J146	181737	137160
J148	185928	210439
J149	185928	200914
J150	177165	147955
J151	174879	154432
J152	186182	158242
J153	202311	174752
J154	213868	176784
J155	201930	150241
J156	214503	190373
J160	132461	131572
J161	55626	193040
J162	6858	214757
J2	238252	181610
J201	177165	145415
J202	132588	120015
J203	178435	151892
J204	146431	112268
J205	233045	177927
J207	181356	216027
J210	77470	16510
J211	236093	170307
J214	212725	135509
J215	172339	163322
J216	128905	93980
J217	196850	142621
J218	154940	54991
J219	189484	46482
J300	235839	94996
J301	121412	150495
J301.	218490	246989
J302	188468	187579
J303	188468	185039
J305	164592	139065
J307	236855	86487
J308	236855	89027
J309	188468	182499
J310	188468	179959
J312	187706	176149
J313	187706	173609
J315	202311	177292
J316	223520	97409

F7320N0B PWB PARTS ALLOCATION TABLES (component side):

Ref No	Xmm	Ymm
J317	224282	68199
J318	137541	63500
J319	182753	124841
J320	187198	192659
J321	163449	87630
J322	158496	87884
J323	135509	184277
J324	211328	64516
J325	132334	78740
J326	141478	233172
J328	96520	40386
J329	179197	61341
J330	99314	29972
J331	165481	20320
J332	170561	20193
J334	11811	131445
J335	64516	89662
J336	101473	130301
J337	134239	20828
J338	58801	84582
J339	207010	133096
J340	199390	150241
J341	98552	35052
J343	136525	125095
J344	166751	155194
J345	60960	90805
J346	159512	139065
J347	203200	200914
J348	220726	8890
J349	221234	55753
J400	179959	76200
J401	152654	153670
J401.	194995	246989
J403	228854	132334
J404	173736	123317
J405	52070	113411
J406	151638	75946
J410	212090	217297
J411	220091	206502
J413	151511	78994
J414	145796	69977
J416	121539	115189
J418	157480	234442
J419	163576	234569
J421	168148	70993
J425	19050	121158
J426	236220	200025
J427	147193	114808
J428	236093	172847
J429	34544	118999

Ref No	Xmm	Ymm
J430	229108	67818
J433	186944	41910
J434	67183	45593
J435	6858	200787
J800	67691	76581
J801	118491	117475
J803	225044	145796
J806	240284	115189
J807	152400	51943
J810	152400	49530
J811	144780	44577
J812	53467	68199
J815	74676	192786
J816	60706	201803
J902	177165	141605
J903	142494	109474
J904	147828	73533
J906	148209	81534
J907	221488	101981
J907.	198501	81915
J908	177038	81534
J909	18923	191516
J910	31877	209677
K1	223266	60198
K2	180340	121031
L1001	185928	207264
L1002	185928	203962
L1004	196850	150241
L201	76454	7239
L202	169545	58166
L203	234696	71501
L205	209804	87757
L206	234950	61468
L207	228600	125222
L301	221869	75565
L303	231140	240411
L304	221488	222758
L401	194945	234823
L601	94996	82169
L602	95504	32765
L604	59182	31496
L701	61976	213614
L702	75946	197104
L703	62484	197739
L710	93218	98552
L790	101473	131572
L881	137668	214503
M1	211328	47498
M1.	196977	66040
M2	196977	63500

Ref No	Xmm	Ymm
P201	234569	14478
P301	221234	227203
P402	164973	96520
P601	86487	64516
P602	80010	25908
P701	20574	185039
P702	84074	200787
P851	142748	219456
P881	139065	171958
P882	166497	197993
P883	127508	216027
PR701	83566	217805
Q1014	148463	133477
Q209	167767	37719
Q301	210566	227457
Q3011	208026	227457
Q302	205740	220980
Q3021	203200	220980
Q401	140970	30480
Q500	138811	129032
Q502	104013	80010
Q5031	111506	76962
Q504	120523	57277
Q505	124460	65531
Q5061	117983	51054
Q509	125984	88519
Q5091	123444	88519
Q510	118745	76581
Q511	151003	140081
Q601	73533	76073
Q602	52197	83312
Q603	101981	104521
Q604	100457	91948
Q701	40513	144526
Q702	29591	130048
Q703	24003	130048
Q705	49530	91440
Q708	133477	138049
Q709	134366	146558
Q711	133858	154940
Q870	159004	206502
Q871	159004	195072
Q872	155067	182499
Q883	153035	194564
Q885	154051	206502
Q887	146812	183007
R1030	223774	155194
R1031	223774	157734
R1033	222758	139319
R1048	204470	150241

Ref No	Xmm	Ymm
R1049	193548	150241
R1059	189992	148971
R1063	237236	139192
R1083	138557	233299
R236	158750	33401
R240	141351	57785
R250	174498	95885
R252	236855	92075
R305	197612	213106
R312	194310	228600
R313	184785	224282
R314	186563	198374
R365	184531	20955
R366	177546	21082
R407	151003	19939
R408	143510	24003
R410	156464	21463
R414	159512	21463
R417	162560	21463
R420	173609	21590
R429	180975	21844
R501	114554	82042
R502	125984	76073
R504	102362	70358
R506	112522	67564
R507	98044	62992
R512	131572	53467
R514	128016	52959
R518	114046	46228
R524	162687	129667
R602	70231	92964
R603	40513	82804
R604	28194	86614
R605	28194	83566
R606	94996	68580
R609	80010	31750
R610	100457	46990
R611	61976	57531
R616	116332	114046
R618	80010	35306
R619	133604	115697
R620	75692	11430
R625	112014	116078
R632	50419	68580
R634	67183	40132
R702	48006	126238
R703	22987	167513
R704	38100	144526
R705	29718	155448
R706	55499	153797

Ref No	Xmm	Ymm
R707	34544	143510
R708	36957	120269
R709	32512	106934
R710	32512	109982
R719	44450	112522
R720	53467	142113
R721	14224	111379
R722	15494	93853
R730	137795	125095
R732	20574	85979
R737	138430	148590
R751	62992	186817
R752	54610	176784
R753	55880	173990
R836	173736	110490
R882	162941	183515
R883	140970	188087
R884	162941	213995
R885	139573	208915
R886	152019	176022
R887	135763	179324
R903	161036	108585
RJ73	227076	65531
RMC1	98450	245008
RMC1B	97663	241427
S1	20497	243205
S1001	48488	238201
S1002	60502	238201
S1003	72491	238201
S1004	84505	238201
S701	20497	242595
SC401	166522	9499
SC881	121539	195961
SF201	219964	112522
SF202	190627	69469
SF203	226314	112522
T601	33528	41783
T700	75565	126314
T751	76454	176276
TU201	220954	7315
VA701	37846	214503
X1001	205486	193040
X801	184531	116967

F7320N0B PWB PARTS ALLOCATION TABLES (copper side):

Ref No	Xmm	Ymm
C1001	212725	199644
C1002	217424	179070
C1003	227838	174117
C1005	217297	172466
C1008	204851	192405
C1009	203200	196342
C1011	217170	190881
C1012	221361	179070
C1013	217551	147701
C1015	227711	182499
C1016	217551	149606
C1023	232156	175006
C1024	235585	158877
C1025	232156	176784
C1026	213614	161417
C1027	228219	170688
C1028	228346	192024
C1029	191770	168148
C1030	224536	152654
C1032	228219	168910
C1033	196469	199517
C1035	239268	67056
C201	180340	91567
C202	201422	85979
C203	219456	91059
C204	169418	70993
C207	188214	83312
C209	226060	91567
C210	191262	87757
C211	217678	39497
C212	213487	59563
C214	217043	72009
C215	215773	80772
C216	210312	92456
C217	175768	87630
C218	180086	87122
C219	231521	66167
C220	207264	50800
C221	207264	46736
C223	204470	41275
C226	182118	89535
C227	234569	105791
C228	238252	108839
C229	192278	83312
C230	234188	43942
C231	188214	49276
C237	209804	87757
C238	187198	37338
C240	189738	59436
C242	193294	87757
C243	226568	24003
C244	227076	26797
C245	227076	41021
C250	177292	68326
C251	210058	81788
C252	164465	38481
C253	236855	148336
C254	231521	59817
C303	209931	241046
C305	216027	232791
C307	222885	217805
C310	228346	88011
C311	212979	44196
C402	191643	234823
C407	186309	20574
C408	184277	20574
C409	188214	20574
C411	196215	25273
C412	135509	20701
C413	182118	8890
C414	178054	8890
C415	179451	21082
C503	119253	53975
C504	107569	72009
C509	215265	112776
C510	215265	114808
C511	126746	39370
C512	130682	41783
C517	113157	83439
C518	117221	64770
C607	166624	127381
C609	43307	85217
C610	210185	116205
C611	81280	82296
C613	210185	118237
C614	113284	7747
C623	18034	28448
C717	147320	147574
C720	95504	150876
C721	96774	154305
C729	31242	124714
C751	61468	158496
C752	48006	165227
C801	180975	110871
C802	180975	106807
C803	180975	108712
C805	176530	53848
C807	185039	123190
C808	161798	63246
C810	191008	120777
C813	189230	87757
C816	176784	117602
C817	224282	106553
C818	195199	84328
C820	179070	117602
C825	191008	118745
C827	168275	99695
C828	165227	98806
C829	173482	97409
C871	162814	185293
C872	155194	199771
C873	162814	180848
C880	150749	179832
C881	150495	209296
C882	149479	197358
C883	164084	201803
C884	167513	187071
C885	167005	181356
C901	187198	92583
C906	163195	112141
C909	192024	124714
D1014	198628	188468
D1016	198628	185674
D1018	198628	182880
D1020	55245	87757
D208	227965	121793
D214	223774	122301
D516	140335	136144
D517	142494	136144
D752	62992	169545
D753	57023	154940
D754	44069	157861
IC1	23368	101854
IC1002	195199	164084
IC201	199009	105029
IC501	122174	42545
IC751	53467	164465
Q1001	219456	194183
Q1002	204978	160274
Q1003	215138	154051
Q1004	204978	165608
Q1005	213741	203962
Q1006	216662	169037
Q1007	222250	149352
Q1008	226568	135255
Q1009	231267	136525
Q1010	98425	111252
Q1011	229362	198755
Q1012	196723	192913
Q1013	229362	205740
Q201	165481	66929
Q202	237998	36957
Q203	205994	66040
Q204	200914	66040
Q206	232283	121793
Q212	230632	99568
Q303	219710	221361
Q304	213614	214630
Q305	235077	220218
Q351	206502	20447
Q352	200533	29718
Q353	206502	25527
Q354	196596	37465
Q355	197104	42545
Q501	146177	142494
Q503	107569	75565
Q506	124714	53594
Q704	135636	158369
Q706	161671	158877
Q731	27940	80010
Q751	68326	161925
Q752	58547	170307
Q801	172466	57023
Q901	166243	112141
R1001	196850	171577
R1002	198628	171577
R1003	162687	74168
R1004	160782	74168
R1005	205867	186690
R1006	205867	183134
R1007	205867	181356
R1008	205867	179578
R1009	205867	184912
R1010	202438	181102
R1011	202819	186055
R1012	222377	196723
R1013	206121	170688
R1014	230505	192024
R1015	217170	188468
R1016	196215	150622
R1017	221234	190881
R1018	221234	188468
R1019	227711	188087
R1020	200406	171577
R1021	213614	159512
R1022	207391	153924
R1023	212725	164211
R1024	232664	203200
R1026	221107	162306
R1027	221107	166624
R1028	221107	169545
R1029	221107	164465
R1032	52070	88011
R1034	210947	154559
R1035	213233	146685
R1037	215138	157226
R1038	131063	30226
R1039	133604	30734
R1041	128524	30988
R1056	216154	199771
R1058	212471	195580
R1060	219964	128016
R1061	225806	130048
R1062	228727	131063
R1064	234442	137033
R1066	221107	171323
R1067	146431	136906
R1068	144526	136906
R1072	232156	178562
R1073	235585	162941
R1075	196469	203581
R1077	214249	143637
R1078	121793	235839
R1080	221107	173101
R1081	206121	168910
R1082	205740	172339
R1086	233680	197358
R1087	217551	151384
R1088	102743	109728
R1089	105791	111506
R1090	229362	202057
R1091	229362	195326
R1092	233680	195326
R201	161798	58293
R202	169291	66294
R203	190246	83312
R204	182753	82042
R205	224536	44323
R206	214884	73787
R207	216535	87249
R208	227965	91567
R209	159766	66548
R210	203962	82042
R211	205994	81788
R214	238760	113284
R215	229108	117221
R216	217043	63246
R217	203327	50800
R218	221234	62230
R219	198755	50800
R220	200787	50800
R221	205232	50800
R222	201295	70739
R223	207010	71755
R224	196850	50800
R225	171323	66929
R226	235712	112649
R228	233299	37211
R231	237998	28575
R232	235458	30734
R233	235458	49022
R234	238760	31750
R235	239268	51689
R238	239268	44196
R239	235077	52832
R248	208026	81788
R251	224790	103505
R253	176022	65277
R254	239522	77978
R256	239268	131572
R257	240538	135255
R258	224282	17526
R260	229235	44577
R261	228473	109982
R262	223266	113030
R263	238760	48641
R301	222758	88773
R302	208661	210566
R303	222123	213233
R304	208661	213360
R306	234696	214503
R307	223901	220726
R308	200025	224028
R309	212852	219075
R310	209931	238506
R311	220472	232791
R315	221869	215519
R316	240030	191135
R317	237744	208407
R318	238760	216027
R347	156210	29718
R351	178562	37973
R352	206248	30480
R354	203962	30099
R355	206248	34290
R356	210439	28194
R357	210566	24257
R358	210566	20320
R359	202311	25273
R360	200279	25273

F7320N0B PWB PARTS ALLOCATION TABLES (copper side):

Ref No	Xmm	Ymm
R361	176657	84328
R362	201422	42291
R363	189738	38481
R364	187198	44323
R402	191516	240538
R403	183261	239268
R404	156210	22733
R412	174244	29337
R415	160274	30226
R416	168021	21590
R418	162560	21590
R419	148336	32765
R421	200279	17272
R422	194310	25273
R423	199136	10414
R424	197104	10414
R425	195199	10414
R426	187325	25527
R427	189230	25527
R428	173355	21590
R434	148717	51181
R435	150495	31496
R436	158242	30226
R500	143002	142748
R503	107569	78994
R505	122555	46228
R508	120015	71247
R509	135001	48895
R510	115062	72263
R511	132715	41783
R513	114554	48768
R515	117475	80010
R516	115189	83439
R517	128778	41783
R519	139192	122936
R520	144907	129921
R525	159258	146050
R526	109474	51054
R527	101473	58547
R528	97663	53467
R529	109220	48514
R530	105029	50546
R531	113284	43688
R532	159258	150114
R533	142240	127127
R601	108585	108077
R607	237744	162941
R608	237744	158877
R612	161798	125730
R613	199009	123317

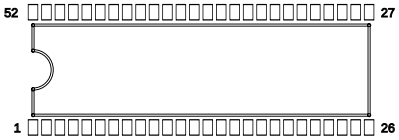
Ref No	Xmm	Ymm
R615	205232	123063
R621	100711	14224
R622	96266	9017
R623	76581	17272
R624	78486	17272
R633	82042	14224
R711	130048	144018
R712	139065	140970
R713	131063	157226
R714	45847	89154
R715	45847	91694
R716	51816	92837
R717	96774	156337
R718	46990	94996
R724	144145	155702
R725	157988	158877
R729	147193	156210
R731	27559	84963
R733	131826	144018
R735	131826	148844
R745	65277	153543
R754	54737	170561
R755	61468	162560
R756	61595	164973
R757	52578	170561
R758	59055	158496
R759	42037	164719
R760	50673	158242
R761	54229	154940
R762	44069	163322
R801	192024	122809
R802	166751	53213
R803	199009	127254
R804	218694	98552
R805	136017	41275
R806	176657	81534
R807	168529	50165
R808	161925	40005
R809	177038	56261
R810	180340	93472
R814	180213	95758
R815	178054	98298
R816	173736	95250
R823	164973	81026
R825	226187	106553
R834	100711	12319
R837	176784	113284
R838	199009	125222
R839	156591	96520
R878	162941	193929

Ref No	Xmm	Ymm
R879	162814	187325
R880	157099	200787
R881	159004	180213
R888	162941	195961
R892	149479	191770
R893	150495	203835
R894	146939	179578
R896	161671	202946
R898	161671	198882
R899	162687	182753
R901	192024	127254
R902	170561	112268
R904	167386	116332
RJ1	154813	52578
RJ10	218694	142748
RJ1031	137287	12319
RJ11	191770	160528
RJ112	229235	216154
RJ12	196596	160528
RJ120	135255	73533
RJ122	214757	117221
RJ123	229997	238506
RJ124	221742	72517
RJ125	105537	236982
RJ126	118999	236093
RJ128	211963	236093
RJ129	192278	230505
RJ13	180467	140970
RJ132	154813	88519
RJ135	213741	38100
RJ136	182626	70104
RJ138	127000	44958
RJ141	195834	224536
RJ142	51054	80264
RJ143	224282	118237
RJ144	227330	113030
RJ146	207264	125222
RJ147	214122	124968
RJ148	183261	86487
RJ15	209550	136144
RJ150	130048	122301
RJ151	126746	115824
RJ152	238760	126111
RJ153	211582	41783
RJ154	149479	130048
RJ155	140335	136144
RJ156	142494	136144
RJ16	219710	125222
RJ17	215392	136144
RJ18	221361	177292

Ref No	Xmm	Ymm
RJ19	216662	165735
RJ2	191770	25273
RJ20	195580	185674
RJ21	227076	207772
RJ22	154686	121539
RJ23	151384	121539
RJ24	212725	78486
RJ25	192278	36195
RJ26	222250	106553
RJ27	223266	115062
RJ28	224028	109982
RJ29	229235	113030
RJ3	229743	211963
RJ30	200533	47498
RJ31	219329	120269
RJ34	115570	39751
RJ35	201549	40005
RJ36	216789	48260
RJ37	224790	38735
RJ4	220091	174879
RJ40	151892	88519
RJ41	178054	65277
RJ42	166370	72771
RJ43	188976	66040
RJ44	160274	68707
RJ45	156210	68707
RJ47	195199	82296
RJ48	199263	70739
RJ49	128524	85979
RJ5	217424	176911
RJ50	208534	30480
RJ53	207518	40767
RJ55	8763	35814
RJ56	8763	33782
RJ57	8763	31750
RJ58	8763	29718
RJ59	8763	27813
RJ6	213487	187071
RJ60	8763	25781
RJ61	8763	23749
RJ62	8763	21717
RJ64	228473	64262
RJ65	213614	64262
RJ66	217932	52197
RJ67	215773	52197
RJ68	213741	52197
RJ69	210820	52197
RJ7	222377	200660
RJ70	120904	68199
RJ71	114554	46736

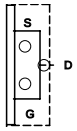
Ref No	Xmm	Ymm
RJ72	143764	43307
RJ74	161290	9398
RJ8	219329	183896
RJ81	155956	195072
RJ82	155321	35941
RJ9	219329	182118

SOLID STATE DEVICE BASE DIAGRAM



RH-IX1818BMZZ

RH-IX1812BMZZ



RH-TX0199BMZZ

VHIPC123ZY-1

RH-IX0037CEZZ

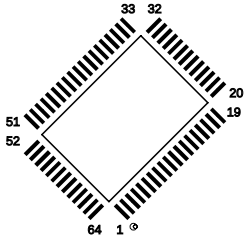
VSIMT1A/A//-1*

RH-TX0132BMZZ
RH-TX0204BMZZ

RH-TX0142BMZZ
RH-TX0216BMZZ
RH-TX0217BMZZ
RH-TX0218BMZZ

RH-TX0108BMZZ
RH-TX0112BMZZ
RH-TX0181BMZZ
RH-TX0180BMZZ

RH-TX0113BMZZ
VS2SA1037KQ-1
VS2SC2412KQ-1
(SMD COMPONENT)



RH-IX1630BMN2

DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.

2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPOTANT SAFETY NOTE:

PARTS MARKED WITH « ⚠ » ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

CAUTION

This circuit diagram is original one, therefore there may be slight difference from yours.

NOTE:

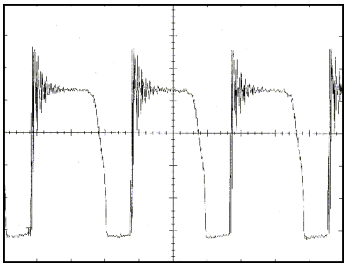
1. The unit of resistance «ohm»is omitted (K=1000 ohms. M= Megaohm).
2. All resistors are 1/8 watt. unless otherwise noted.
3. All capacitors are μF, unless otherwise noted (P= μμF).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to with stand 63V.
5. The capacitor with Part No. RC-FZ4XXXBMNJ is designed to with stand 50V.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (–•–•–) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

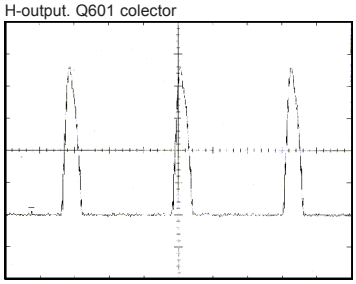
WAVEFORM MEASUREMENT CONDITION:
Colour bar genetator signal of 70 dB from RF input.

Power circuit drive. Q701 Drain



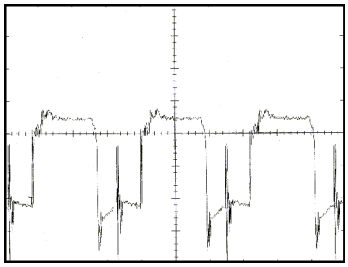
1 V. Division: 100V / Sec. Division: 5uS

H-output. Q601 colector



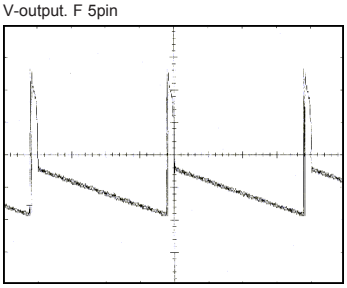
2 V. Division: 200V / Sec. Division: 20uS.

H-drive. Q601 Base



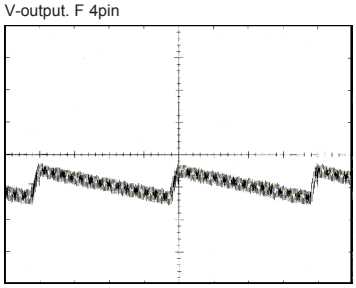
3 V. Division: 2.0V / Sec. Division: 20uS

V-output. F 5pin



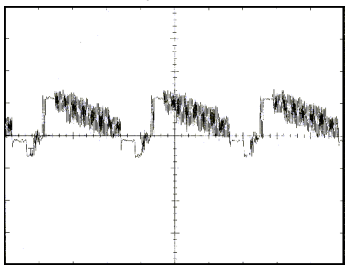
4 V. Division: 10V / Sec. Division: 5mS

V-output. F 4pin



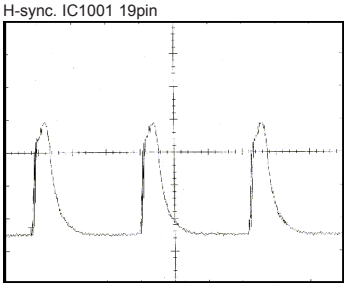
5 V. Division: 2.0V / Sec. Division: 5mS

Video out. IC201 54pin



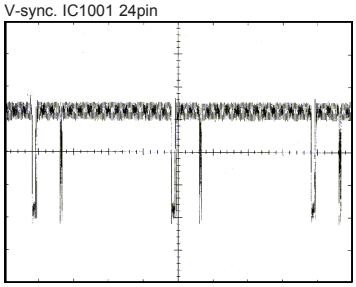
6 V. Division: 1V / Sec. Division: 20uS

H-sync. IC1001 19pin



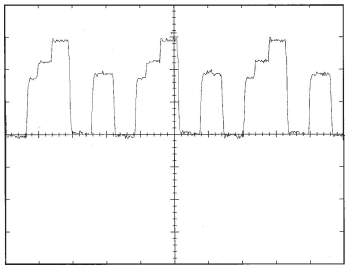
7 V. Division: 1V / Sec. Division: 20uS

V-sync. IC1001 24pin



8 V. Division: 1V / Sec. Division: 5mS

Red cathode CRT socket 8pin



9 V. Division: 20V / Sec. Division: 20uS

SCHEMATIC DIAGRAM (00 Version).

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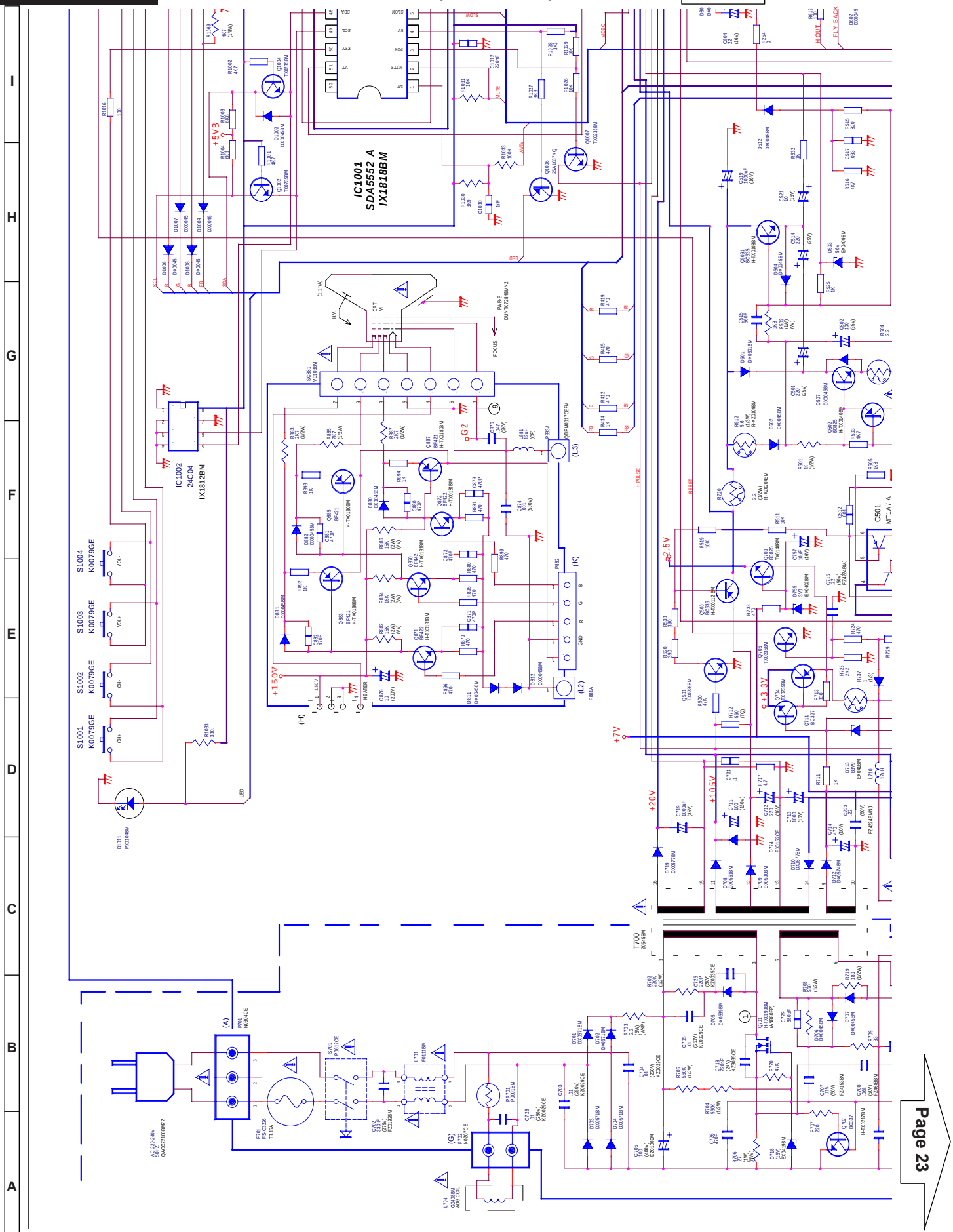

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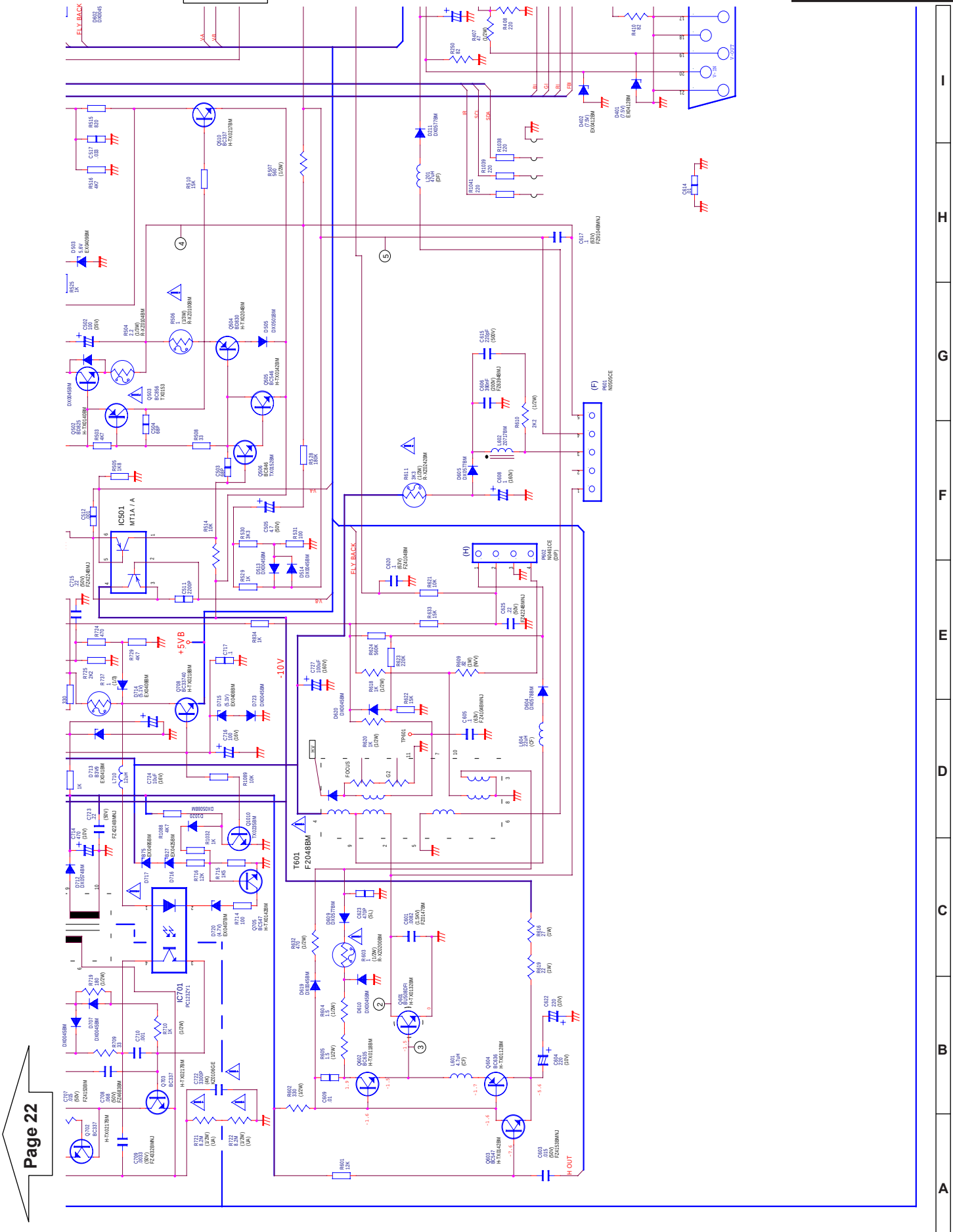
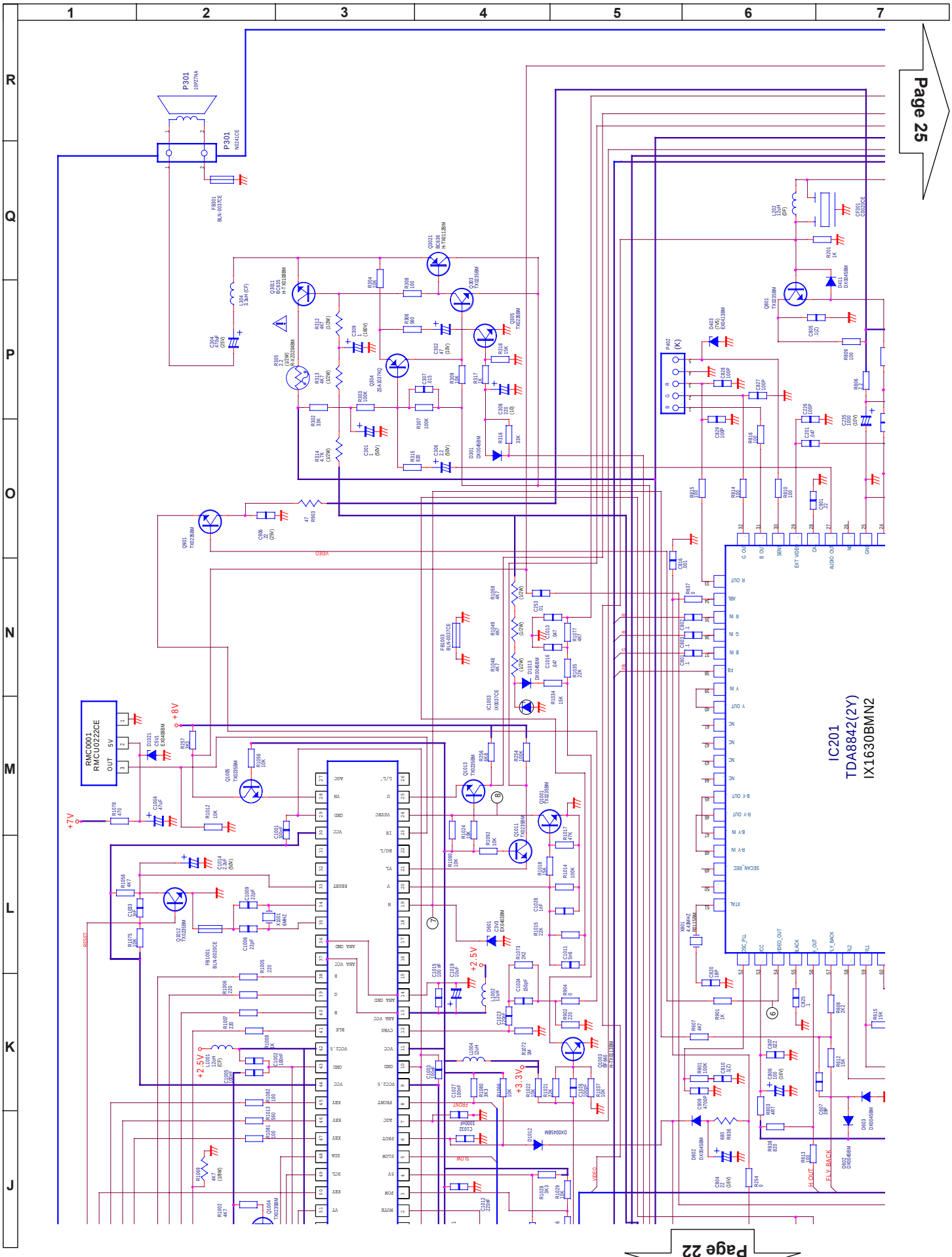
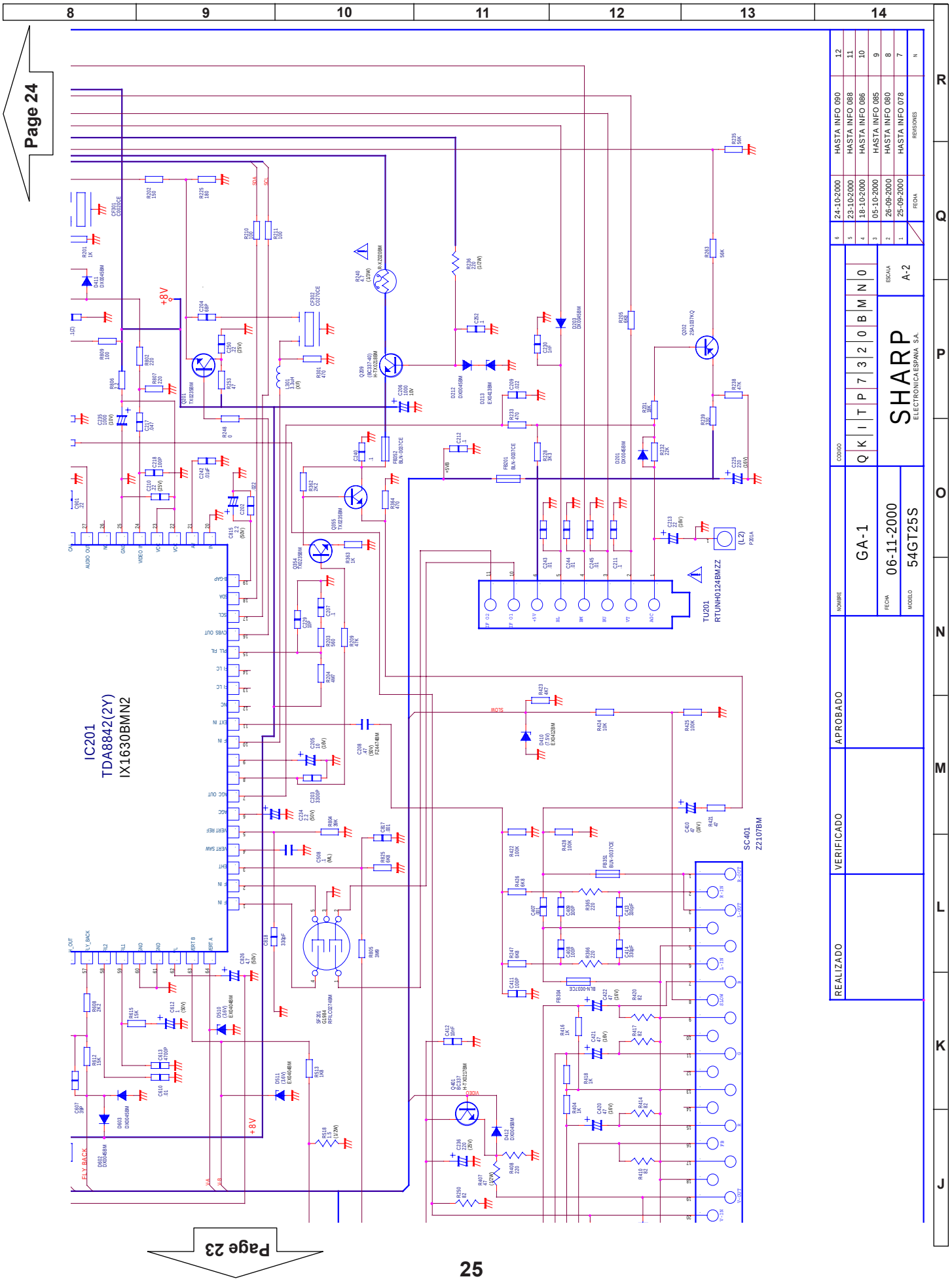
SCHEMATIC DIAGRAM (00 Version).



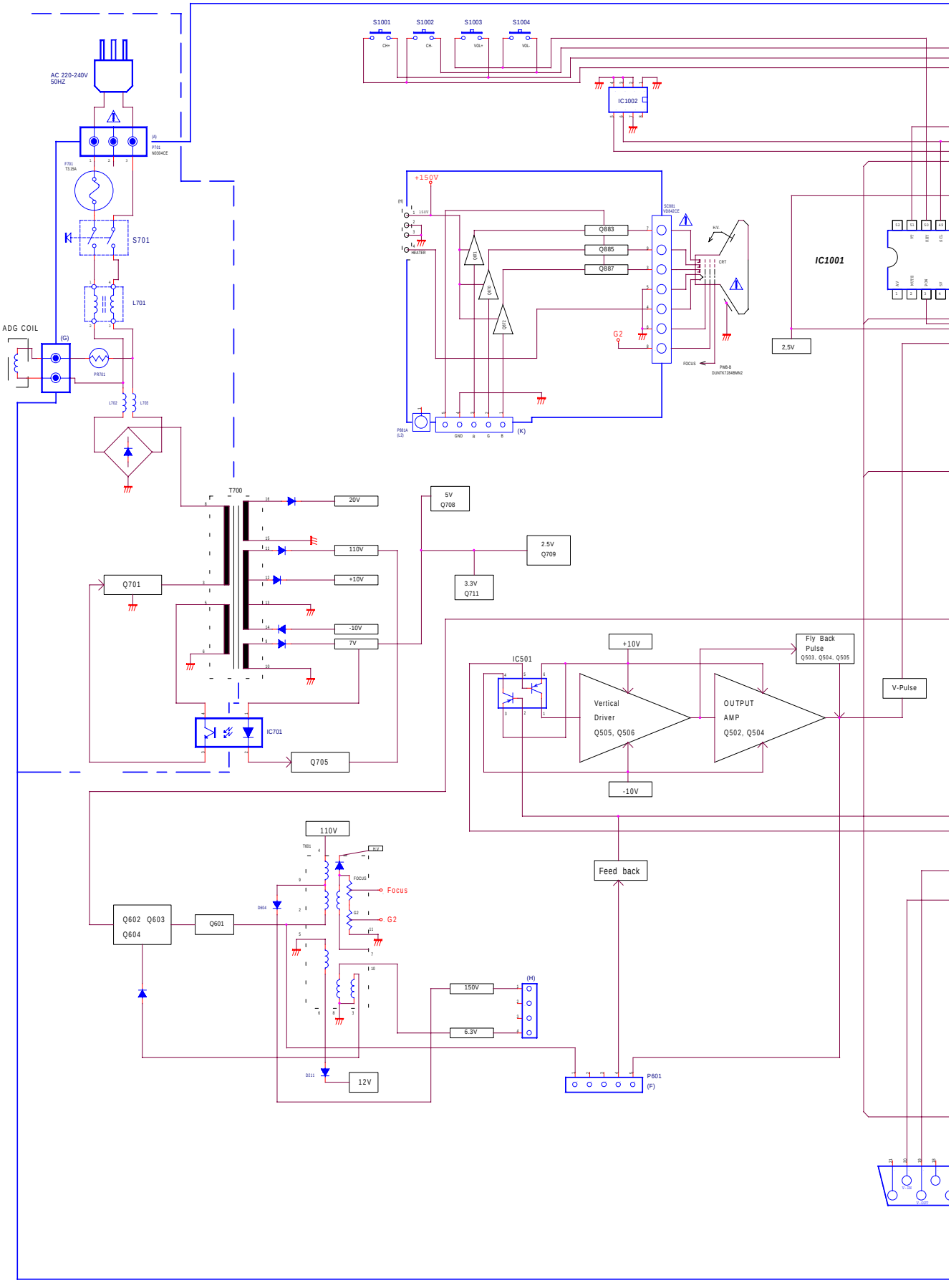
SCHEMATIC DIAGRAM (01 Version).



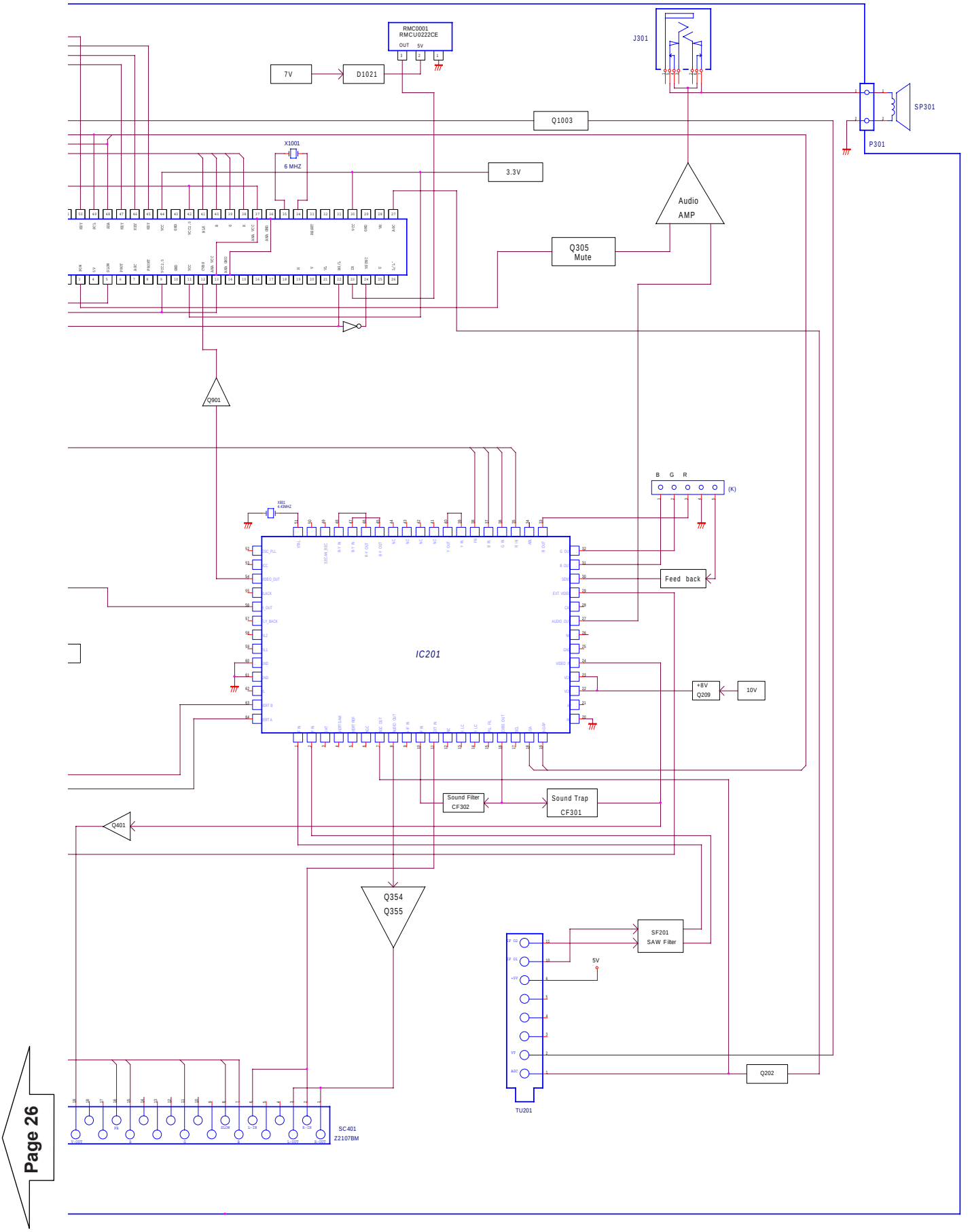
SCHEMATIC DIAGRAM (01 Version).



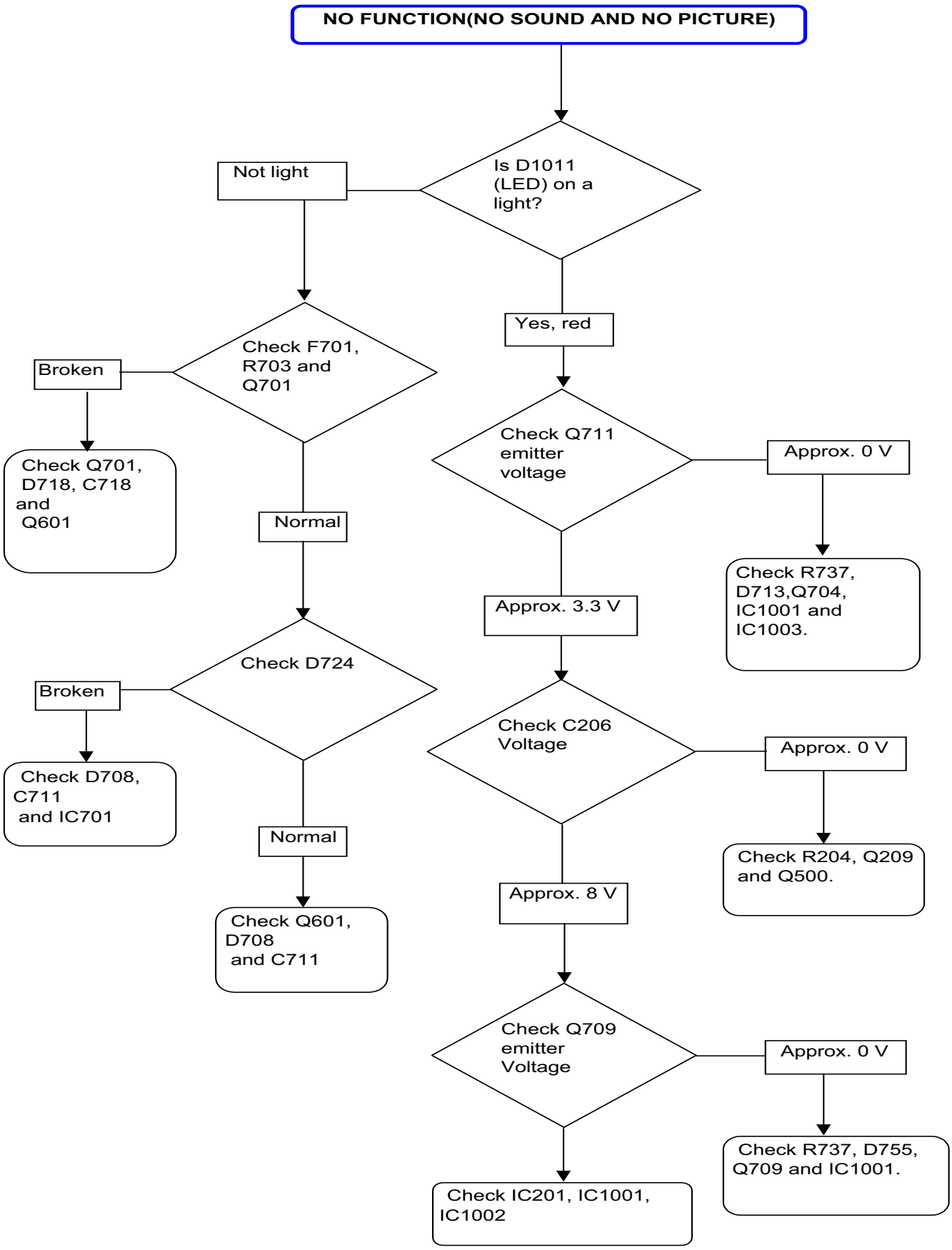
BLOCK DIAGRAM



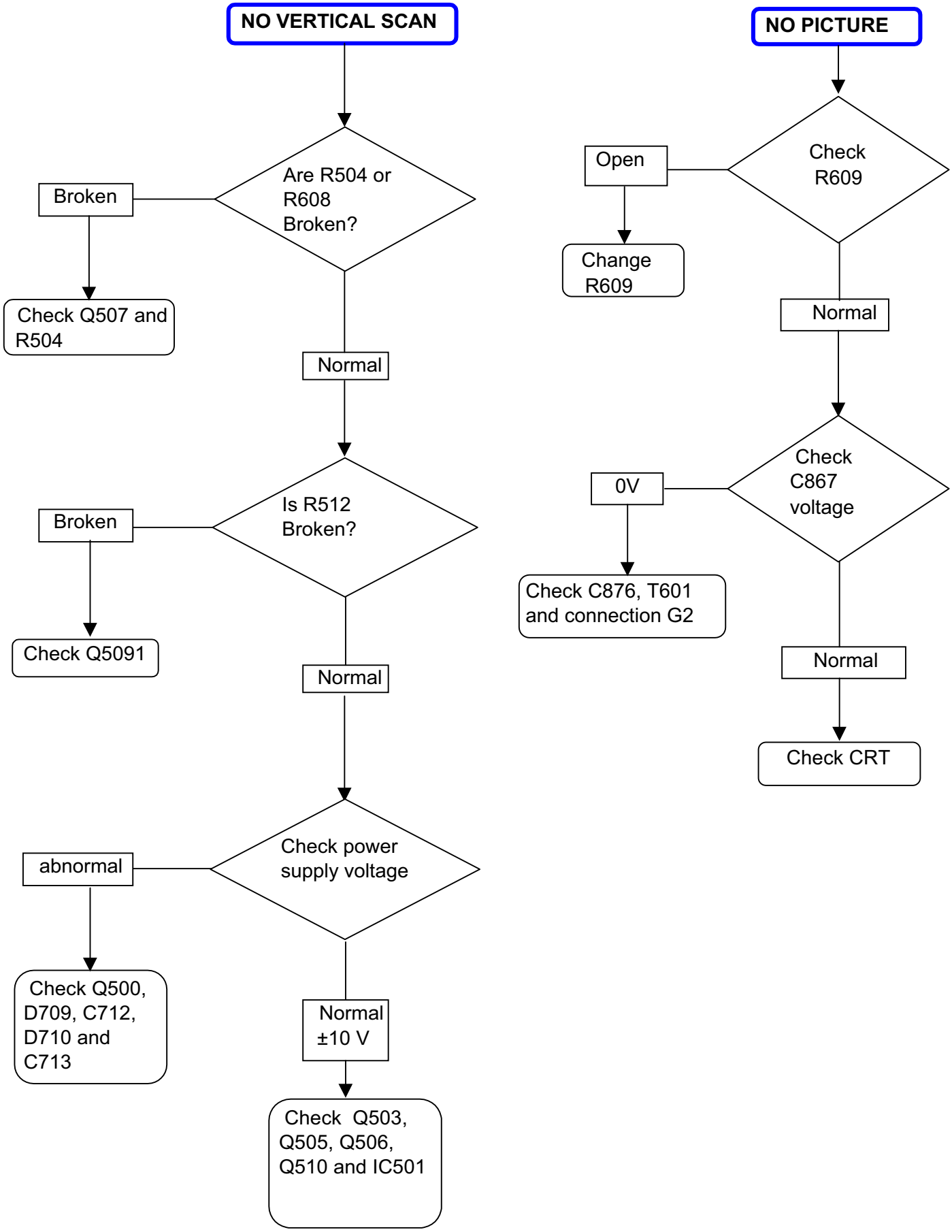
BLOCK DIAGRAM



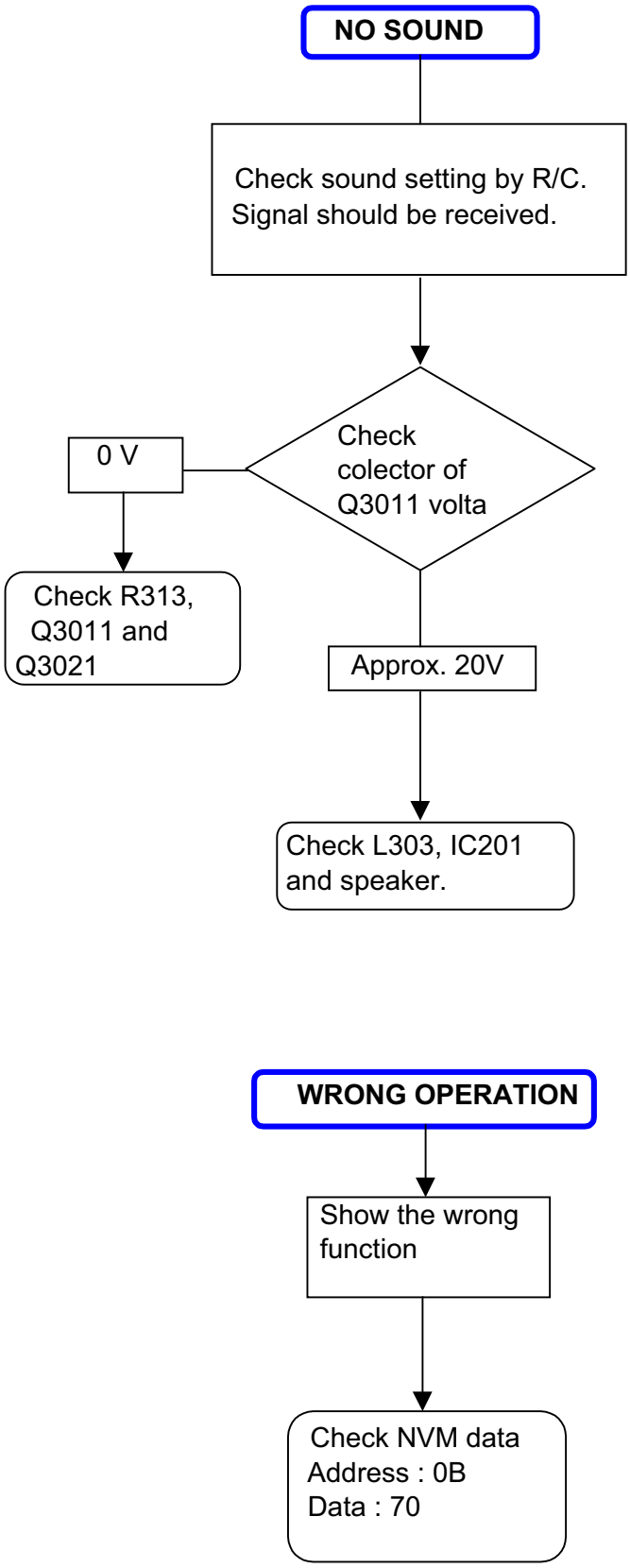
TROUBLESHOOTING TABLES.



TROUBLESHOOTING TABLES.



TROUBLESHOOTING TABLES.



PART LIST

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by ⚠ in the Replacement Part List.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.
Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promplty and corretly please supply the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK *: SPARE PARTS DELIVERY SECTION

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
			PICTURE TUBE			
⚠		VB51EFS83912E	CRT 21" THA51EFS83X391+DYW	S	BN	CD
⚠		VB51EAL15511N	CRT 21" PHILIPS	S	**	
⚠		RCILG0408BMZZ	DEGUSSING COIL TODAIMUSEN	S	AH	AP
			PRINTED WIRING BOARDS (Not replacement item)			
		DUNTK7320CJV8	ADJUST CHASSIS 54GT25S	S	--	--
		DUNTK7321CJV8	ADJUST CRT UNIT 54GT25S	S	--	--
		DSETU7320BMV8	CON CHASIS 54GT25S	S	--	--
	PWB-A		**MOTHER UNIT**			
			TUNER			
	TU 0201	RTUNH0124BMZZ	TUNER UV1315/IEC BALANCED	S	AP	BA
			INTEGRATED CIRCUITS			
	IC 0201	RH-IX1630BMN2	IC TDA8840-2Y PHILIPS	S	AN	AZ
	IC 0501	VSIMT1A/A//-1	TRT IMT1A-T110 ROHM	S	AA	AB
⚠	IC 0701	VHIPC123ZY1-1	PHOTO COUPLER PC123ZY1 SHARP	S	AA	AD
	IC 1001	RH-IX1818BMZZ	IC SDA5552A002 TV TEXT PRO 1PAGE 64KB	S	--	--
	IC 1002	RH-IX1812BMZZ	EEPROM M24C04-WMN6T ST MICROELECTRONICS	S	AB	AF
	IC 1003	RH-IX0037CEZZ	IC UPC574J 33V NEC	S	AF	AD
			TRANSISTORS			
	Q 0201	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0202	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0209	RH-TX0218BMZZ	TRT BC337-40 PHILIPS	S	AA	AA
	Q 0303	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0304	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0305	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0354	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0355	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0401	RH-TX0217BMZZ	TRT BC337 PHILIPS	S	AA	AB
	Q 0500	RH-TX0112BMZZ	TRT BC636	S	AA	AB
	Q 0501	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0502	RH-TX0140BMZZ	TRT BD825-16	S	AF	AC
	Q 0503	RH-TX0153BMZZ	TRT BC856BLT1 SMD MOTOROLA	S	AA	AB
	Q 0504	RH-TX0204BMZZ	TRT BD830	S	AF	AC
	Q 0505	RH-TX0154BMZZ	TRT BC546 PHILIPS	S	AA	AA
	Q 0506	RH-TX0152BMZZ	TRT BC846BLT1 SMD MOTOROLA	S	AA	AA
	Q 0510	RH-TX0217BMZZ	TRT BC337 PHILIPS	S	AA	AB
	Q 0601	RH-TX0132BMZZ	TRT BU508DFI	S	AF	AM
	Q 0602	RH-TX0118BMZZ	TRT BC635-16 BETA > 100	S	AC	AC
	Q 0603	RH-TX0142BMZZ	TRT TBC 547-B TOSHIBA	S	AA	AB
	Q 0604	RH-TX0112BMZZ	TRT BC636	S	AA	AB
	Q 0701	RH-TX0199BMZZ	TRT STP4NB80FP ST	S	AC	AG
	Q 0702	RH-TX0217BMZZ	TRT BC337 PHILIPS	S	AA	AB
	Q 0703	RH-TX0217BMZZ	TRT BC337 PHILIPS	S	AA	AB
	Q 0704	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0705	RH-TX0142BMZZ	TRT TBC 547-B TOSHIBA	S	AA	AB
	Q 0706	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
	Q 0708	RH-TX0218BMZZ	TRT BC337-40 PHILIPS	S	AA	AA
	Q 0709	RH-TX0140BMZZ	TRT BD825-16	S	AF	AC
	Q 0711	RH-TX0216BMZZ	TRT BC327	S	AA	AA
	Q 0801	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
Q 0901	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1001	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1002	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1003	RH-TX0113BMZZ	TRT BF840 SMD	S	AA	AC
Q 1004	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1005	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1006	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
Q 1007	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1010	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1011	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1012	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 1013	RH-TX0235BMZZ	TRT 2SC3875SY KEC	S	--	--
Q 3011	RH-TX0108BMZZ	TRT BC635	S	AA	AC
Q 3021	RH-TX0112BMZZ	TRT BC636	S	AA	AB
Q 5091	RH-TX0108BMZZ	TRT BC635	S	AA	AC
		DIODES			
D 0201	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0203	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0211	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE
D 0212	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0213	RH-EX0413BMZZ	ZENER DIODE BZX79C8V2	S	AB	AB
D 0301	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0401	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0402	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0403	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0410	RH-EX0412BMZZ	ZENER DIODE BZX79C7V5	S	AA	AB
D 0411	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0412	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0501	RH-DX0501BMZZ	DIODE 1N4004	S	AA	AA
D 0502	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0503	RH-EX0409BMZZ	ZENER DIODE BZX79C5V6	S	AA	AA
D 0504	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0505	RH-DX0501BMZZ	DIODE 1N4004	S	AA	AA
D 0507	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0510	RH-EX0404BMZZ	ZENER DIODE BZX79C3V6	S	AA	AA
D 0511	RH-EX0404BMZZ	ZENER DIODE BZX79C3V6	S	AA	AA
D 0512	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0513	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0514	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0601	RH-EX0403BMZZ	ZENER DIODE BZX79C3V3	S	AA	AA
D 0602	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0603	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0604	RH-DX0578BMZZ	DIODE 1N4936 ACPA	S	AA	AA
D 0605	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE
D 0609	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE
D 0610	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0619	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0620	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0701	RH-DX0571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0702	RH-DX0571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0703	RH-DX0571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0704	RH-DX0571BMZZ	DIODE 1N4005 ACPA	S	AA	AA
D 0705	RH-DX0539BMZZ	DIODE BYT52M TFK	S	AA	AC
D 0706	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0707	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0708	RH-DX0561BMZZ	DIODE RGP15J FAGOR	S	AC	AD
D 0709	RH-DX0590BMZZ	DIODE MBR1100RL MOTOROLA	S	AD	AE
D 0710	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE
D 0712	RH-DX0574BMZZ	DIODE 1N5819 ACPA	S	AA	AC
D 0713	RH-EX0405BMZZ	ZENER DIODE BZX79C3V9	S	AB	AB
D 0714	RH-EX0408BMZZ	ZENER DIODE BZX79C5V1	S	AB	AB
D 0715	RH-EX0408BMZZ	ZENER DIODE BZX79C5V1	S	AB	AB
D 0716	RH-EX0425BMZZ	ZENER DIODE BZX79C27V	S	AA	AA
D 0717	RH-EX0495BMZZ	ZENER DIODE BZX79 B75V 2%	S	AA	AB
D 0718	RH-EX0419BMZZ	ZENER DIODE BZX79C15V 0,4W	S	AA	AB
D 0719	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE
D 0720	RH-EX0407BMZZ	ZENER DIODE BZX79C4V7	S	AA	AA
D 0723	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0724	RH-EX0152CEZZ	AVALANCHE DIODE R2MV 135V SANKEN	S	AA	AE
D 0755	RH-EX0402BMZZ	ZENER DIODE BZX79C3V0	S	AA	AB
D 0802	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1002	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1006	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1007	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1008	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1009	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1011	RH-PX0104BMZZ	LED ROJO	S	AB	AC
D 1012	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1013	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1020	RH-DX0508BMZZ	DIODE BAS16T SMD MOTOROLA	S	AA	AB
D 1021	RH-EX0408BMZZ	ZENER DIODE BZX79C5V1	S	AB	AB
		PACKAGED CIRCUITS			
PR 0701	RMPTP0001BMZZ	PTC B59250-C1080-B70	S	AA	AD
X 0801	RCRSB0115BMZZ	CRYSTAL 4,43 MHZ	S	AD	AG
X 1001	RCRSB0100BMZZ	CRYSTAL 6,00 MHZ	S	AD	AG
		COILS			
L 0201	VP-DF470K0000	PEAK COIL 47UH 10%	S	AB	AB
L 0202	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	AA
L 0301	VP-XF3R3K0000	PEAK COIL 3.3UH 10% 1/8W	S	AA	AB
L 0304	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
L 0601	VP-CF4R7K0000	PEAK COIL 4,7UH 10%	S	AB	AB
L 0602	RCILZ0717BMZZ	LINE COIL LH13JL53SH	S	AE	AH
L 0604	VP-CF220K0000	PEAK COIL 22UH 10%	S	AA	AA
L 0701	RCILF0111BMZZ	COIL HR-19043	S	AE	AL
L 0710	VP-CF120K0000	PEAK COIL 12UH 10%	S	AB	AC
L 1001	VP-CF120K0000	PEAK COIL 12UH 10%	S	AB	AC
L 1002	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	AA
L 1004	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	AA
		CERAMIC FILTERS			
CF 0301	RFILC0020CEZZ	FILTER SIF TRAP (TAPED)	S	AE	AE
CF 0302	RFILC0270CEZZ	SIF B.P.FILTER 5.5MHZ MRT	S	AC	AE
SF 0201	RFILC0274BMZZ	SAW FILTER G1984 SIEMENS	S	AF	AK
		TRANSFORMERS			
⚠ T 0601	RTRNF2048BMZZ	FBT 40332-32 OREGA	S	AS	AZ
⚠ T 0700	RTRNZ0545BMZZ	CHOPPER HR9472-00 21" DIEMEN	S	AV	AM
		CAPACITORS			
C 0201	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	AA
C 0202	VCKYTV1HB223K	CERAM C 22NF 50V 2125SMD	S	AA	AA
C 0203	VCKYTV1HB332K	CERAM C 3,3NF 50V 2125SMD	S	AA	AA
C 0204	VCCCTV1HH680J	CERAM C 68PF 50V 2125SMD	S	AA	AA
C 0205	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0206	VCEAGA1AW108M	ELEC C 1000UF 20% 10V	S	AA	AB
C 0207	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0208	RC-FZ4474BMNJ	POL FILM C 470nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0209	VCKYTV1HB223K	CERAM C 22NF 50V 2125SMD	S	AA	AA
C 0210	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 0211	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0212	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0213	VCEAGA1CW226M	ELEC C 22UF 20% 16V	S	AA	AA
C 0217	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	AA
C 0218	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0219	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0225	VCEAGA1CW227M	ELEC C 220UF 20% 16V	S	AA	AA
C 0226	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0229	VCCCTV1HH100D	CERAM C 10PF 50V 2125SMD	S	AA	AA
C 0230	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
C 0234	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
C 0235	VCEAGA1AW108M	ELEC C 1000UF 20% 10V	S	AA	AB
C 0236	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 0239	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0240	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0242	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0243	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0244	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0245	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0250	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 0252	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0253	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0254	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0301	VCEAGA1HW105M	ELEC C 1UF 20% 50V	S	AA	AA
C 0302	VCEAGA1AW476M	ELEC C 47UF 20% 10V	S	AA	AA
C 0304	VCEAGA1EW477M	ELEC C 470UF 20% 25V	S	AA	AB
C 0306	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	C 0307	VCKYTV1HB153K	CERAM C 15NF 50V 2125SMD	S	AA	AA
	C 0308	VCEAGA1AW227M	ELEC C 220UF 20% 10V	S	AA	AA
	C 0309	VCEAGA2CW105M	ELEC C 1UF 20% 160V	S	AA	AB
	C 0407	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0408	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 0409	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 0410	VCEAGA1CW476M	ELEC C 47UF 20% 16V	S	AA	AA
	C 0411	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 0412	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0413	VCCCTV1HH331J	CERAM C 330PF 50V 2125SMD	S	AA	AA
	C 0414	VCCCTV1HH331J	CERAM C 330PF 50V 2125SMD	S	AA	AA
	C 0420	VCEAGA1CW476M	ELEC C 47UF 20% 16V	S	AA	AA
	C 0421	VCEAGA1CW476M	ELEC C 47UF 20% 16V	S	AA	AA
	C 0422	VCEAGA1CW476M	ELEC C 47UF 20% 16V	S	AA	AA
	C 0501	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
	C 0502	VCEAGA1VW107M	ELEC C 100UF 20% 35V	S	AA	AA
	C 0503	VCCCTV1HH680J	CERAM C 68PF 50V 2125SMD	S	AA	AA
	C 0504	VCCCTV1HH680J	CERAM C 68PF 50V 2125SMD	S	AA	AA
	C 0505	VCEAGA1HW475M	ELEC C 4,7UF 20% 50V	S	AC	AC
	C 0508	VCQYTA1HM104J	F. CAPACITOR 0.1 UF 50 V	S	AA	AB
	C 0511	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 0512	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0514	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
	C 0515	VCKYPA1HB561K	CERAM C 560PF 10% 50V	S	AA	AA
	C 0517	VCKYTV1HB333K	CERAM C 33NF 50V 2125SMD	S	AA	AA
	C 0519	VCEAGA1CW108M	ELEC C 1000UF 20% 16V	S	AA	AC
	C 0521	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
	C 0601	RC-FZ0147BMZZ	POL C B32650 8N2 1,5KV	S	AC	AE
	C 0603	RC-FZ4153BMNJ	POL FILM C 15nF 50V 5% ECQ-B PANASONIC	S	AA	AA
	C 0604	VCEAGA1AW227M	ELEC C 220UF 20% 10V	S	AA	AA
	C 0605	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AA
	C 0606	RC-FZ6394BMNJ	PP FILM C 390NF 5% 200V	S	AB	AD
*	C 0606	RC-FZ6474BMNJ	PP FILM C 470NF 5% 200V	S	AD	
	C 0607	VCCCTV1HH390J	CERAM C 39PF 50V 2125SMD	S	AA	AA
	C 0608	VCEAGA2CW105M	ELEC C 1UF 20% 160V	S	AA	AB
	C 0609	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0610	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0612	VCEAGA1HW105M	ELEC C 1UF 20% 50V	S	AA	AA
	C 0613	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 0614	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0615	VCKYPA2HB221K	CERAM C 220PF 10% 500V	S	AA	AA
	C 0617	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 0620	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AA
	C 0622	VCEAGA1AW227M	ELEC C 220UF 20% 10V	S	AA	AA
	C 0623	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S	AA	AB
	C 0625	RC-FZ4224BMNJ	POL FILM C 220nF 50V 5% ECQ-V PANASONIC	S	AA	AB
△	C 0702	RC-FZ0192BMZZ	C 330NF 275V X2 222233820334 PHILIPS	S	AA	AC
	C 0703	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 0704	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 0705	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 0706	RC-EZ0100BMZZ	ELEC C S202H110 100/400V TROBO	S	AF	AM
	C 0707	RC-FZ4153BMNJ	POL FILM C 15nF 50V 5% ECQ-B PANASONIC	S	AA	AA
	C 0708	RC-FZ4683BMNJ	POL FILM C 68nF 50V 5% ECQ-B PANASONIC	S	AA	AB
	C 0709	RC-FZ4332BMNJ	POL FILM C 3,3nF 50V 5% ECQ-B PANASONIC	S	AA	AA
	C 0710	VCKYPA1HB102K	C.CAPACITOR 1000PF/50V	S	AA	AA
	C 0711	VCEAGH2CW107M	ELEC C 100MF 20% 160V	S	AB	AE
	C 0712	VCEAGA1CW227M	ELEC C 220UF 20% 16V	S	AA	AA
	C 0713	VCEAGA1CW108M	ELEC C 1000UF 20% 16V	S	AA	AC
	C 0714	VCEAGA1AW477M	ELEC C 470UF 20% 10V	S	AA	AB
	C 0715	RC-FZ4224BMNJ	POL FILM C 220nF 50V 5% ECQ-V PANASONIC	S	AA	AB
	C 0716	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
	C 0717	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0718	RC-KZ0035CEZZ	CERAM C 220PF 2KV	S	AA	AC
	C 0719	VCEAGA1VW477M	ELEC C 470UF 20% 35V	S	AA	AC
	C 0721	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
△	C 0722	RC-KZ0106GEZZ	CERAM C DE1410 E332M-KX	S	AB	AC
	C 0723	RC-FZ4224BMNJ	POL FILM C 220nF 50V 5% ECQ-V PANASONIC	S	AA	AB
	C 0724	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
	C 0725	RC-KZ0035CEZZ	CERAM C 220PF 2KV	S	AA	AC
	C 0726	VCKYPA1HB471K	CERAM C 470PF 10% 50V	S	AA	AA
	C 0727	VCEAGH2CW107M	ELEC C 100MF 20% 160V	S	AB	AE
	C 0728	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 0729	VCKYTV1HB681K	CERAM C 680PF 50V 2125SMD	S	AA	AA
	C 0801	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	C 0802	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0803	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0804	VCEAGA1CW226M	ELEC C 22UF 20% 16V	S	AA	AA
	C 0805	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0806	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
	C 0807	VCKYTV1HB223K	CERAM C 22NF 50V 2125SMD	S	AA	AA
	C 0810	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0815	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
	C 0816	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0817	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0818	VCCSTV1HL331J	CERAM C 330PF 50V 2125SMD	S	AA	AA
	C 0820	VCCCTV1HH180J	CERAM C 18PF 50V 2125SMD	S	AA	AA
	C 0825	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0826	VCEAGA1HW475M	ELEC C 4,7UF 20% 50V	S	AC	AC
	C 0827	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 0828	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 0829	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 0901	VCKYTV1HF224Z	CERAM C 220NF 50V 2125SMD	S	AA	AA
	C 0906	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 0909	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 1001	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1002	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1003	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1004	VCEAGA1AW476M	ELEC C 47UF 20% 10V	S	AA	AA
	C 1005	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1008	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
	C 1009	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
	C 1011	VCKYTV1HB562K	CERAM C 5,6NF 50V 2125SMD	S	AA	AA
	C 1012	VCKYTV1HF224Z	CERAM C 220NF 50V 2125SMD	S	AA	AA
	C 1013	VCKYTV1HB473K	CERAM C 47NF 50V 2125SMD	S	AA	AA
	C 1014	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
	C 1015	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1016	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	AA
	C 1019	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
	C 1023	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 1024	VCCCTV1HH151J	CERAM C 150PF 50V 2125SMD	S	AA	AA
	C 1026	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 1027	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1028	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1030	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1032	VCKYTV1EF334Z	CERAM C 330NF 25V 2125SMD	S	AA	AB
	C 1033	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
			RESISTORS			
	R 0201	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0202	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
	R 0203	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
	R 0204	VRS-TV1JD475J	2125 4,7MOHM 5% 1/10W SMD	S	AA	AA
	R 0205	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
	R 0209	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0210	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0211	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0225	VRS-TV1JD181J	2125 180 OHM 5% 1/10W SMD	S	AA	AA
	R 0228	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 0231	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
	R 0232	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0233	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0235	VRS-TV1JD563J	2125 56KOHM 5% 1/10W SMD	S	AA	AA
	R 0236	VRD-RA2HD221J	RES 220 OHM 5% 1/2W	S	AA	AA
	R 0238	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0239	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	AA
△	R 0240	RR-XZ0100BMZZ	FUS RES 1R0 TAP 5% 1/3W	S	AA	AB
	R 0248	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0250	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S	AA	AA
	R 0253	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S	AA	AA
	R 0254	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0256	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
	R 0257	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 0263	VRS-TV1JD563J	2125 56KOHM 5% 1/10W SMD	S	AA	AA
	R 0301	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0302	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S	AA	AA
	R 0303	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0304	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0305	RR-XZ0204BMZZ	FUS RES 2R2 TAP 5% 1/2W	S	AA	AB

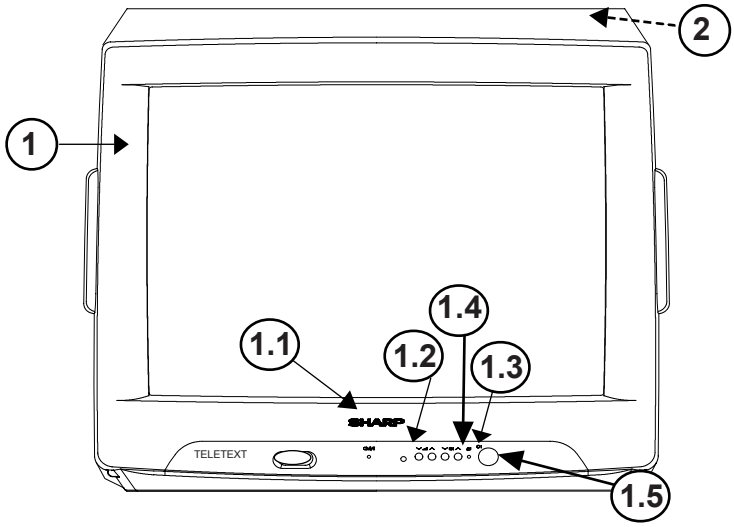
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 0306	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
	R 0307	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0308	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0309	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0312	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
	R 0313	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
	R 0314	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
	R 0315	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S	AA	AA
	R 0316	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S	AA	AA
	R 0317	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0318	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0362	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0363	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0364	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0365	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S	AA	AA
	R 0366	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S	AA	AA
	R 0404	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0407	VRD-RA2HD470J	RES 47 OHM 5% 1/2W	S	AA	AA
	R 0408	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S	AA	AA
	R 0410	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S	AA	AA
	R 0412	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0414	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S	AA	AA
	R 0415	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0416	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0417	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S	AA	AA
	R 0418	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0419	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0420	VRD-RA2BE820J	RES 82 OHM 5% 1/8W	S	AA	AA
	R 0421	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S	AA	AA
	R 0422	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0423	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 0424	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0425	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0426	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
	R 0427	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
	R 0428	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0434	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0500	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0501	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S	AA	AA
	R 0502	VRS-VV3AB182J	MET OX RES 1,8KOHM 5% 1W	S	AA	AA
	R 0503	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
△	R 0504	RR-XZ0104BMZZ	FUS RES 2R2 TAP 5% 1/3W	S	AA	AB
	R 0505	VRS-TV1JD182J	2125 1,8KOHM 5% 1/10W SMD	S	AA	AA
	R 0506	RR-XZ0100BMZZ	FUS RES 1R0 TAP 5% 1/3W	S	AA	AB
	R 0507	VRD-RA2HD561J	RES 560 OHM 5% 1/2W	S	AA	AA
	R 0508	VRS-TV1JD330J	2125 33 OHM 5% 1/10W SMD	S	AA	AA
	R 0510	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0511	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0512	RR-XZ0109BMZZ	FUS RES 5R6 TAP 5% 1/3W	S	AA	AB
	R 0513	VRS-TV1JD182J	2125 1,8KOHM 5% 1/10W SMD	S	AA	AA
	R 0514	VRD-RA2BE103J	RES 10KOHM 5% 1/8W	S	AA	AA
	R 0515	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S	AA	AA
	R 0516	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 0518	VRD-RA2HD1R5J	RES 1,5 OHM 5% 1/2W	S	AA	AA
	R 0519	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0520	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
	R 0525	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0528	VRS-TV1JD184J	2125 180KOHM 5% 1/10W SMD	S	AA	AA
	R 0529	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0530	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 0531	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0532	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0533	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
	R 0601	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
	R 0602	VRD-RA2HD331J	RES 330 OHM 5% 1/2W	S	AA	AA
	R 0603	RR-XZ0200BMZZ	FUS RES 1R0 TAP 5% 1/2W	S	AA	AB
	R 0604	VRD-RA2HD1R5J	RES 1,5 OHM 5% 1/2W	S	AA	AA
	R 0605	VRD-RA2HD1R5J	RES 1,5 OHM 5% 1/2W	S	AA	AA
	R 0607	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 0608	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0609	VRN-VV3ABR82J	MET FILM R .82 OHM 5% 1W	S	AA	AA
*	R 0609	VRN-VV3AB3R3J	MET FILM R 3,3 OHM 5% 1W	S	AA	
	R 0610	VRD-RA2HD222J	RES 2,2KOHM 5% 1/2W	S	AA	AA
△	R 0611	RR-XZ0242BMZZ	FUS RES 3K3 TAP 5% 1/2W	S	AA	AB

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 0612	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0613	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0615	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0616	VRS-VV3DB270J	MET OX RES 27 OHM 5% 2W	S	AA	AA
	R 0618	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S	AA	AA
	R 0619	VRS-VV3DB220J	MET OX RES 22 OHM 5% 2W	S	AA	AA
	R 0620	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S	AA	AA
	R 0621	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0622	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0623	VRS-TV1JD224J	2125 220KOHM 5% 1/10W SMD	S	AA	AA
	R 0624	VRS-TV1JD564J	2125 560KOHM 5% 1/10W SMD	S	AA	AA
	R 0632	VRD-RA2HD471J	RES 470 OHM 5% 1/2W	S	AA	AA
	R 0633	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0702	VRD-RA2HD224J	RES 220KOHM 5% 1/2W	S	AA	AA
	R 0703	VRW-KP3HC5R6K	WOUND RES 5,6 OHM 10% 5W	S	AB	AC
	R 0704	VRC-MA2HG564J	SOLID R 560KOHM 5% 1/2W	S	AA	AA
	R 0705	VRC-MA2HG564J	SOLID R 560KOHM 5% 1/2W	S	AA	AA
	R 0706	VRN-VV3ABR27J	MET FILM R .27 OHM 5% 1W	S	AA	AA
	R 0707	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S	AA	AA
	R 0708	VRD-RA2HD561J	RES 560 OHM 5% 1/2W	S	AA	AA
	R 0709	VRD-RA2BE330J	RES 33 OHM 5% 1/8W	S	AA	AA
	R 0710	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S	AA	AA
	R 0711	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0712	VRS-TQ2BD561J	OX RE 560 OHM 5% 1/8W SMD	S	AA	AA
	R 0713	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	AA
	R 0714	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0715	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
	R 0716	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
	R 0717	VRS-TV1JD4R7J	2125 4,7 OHM 5% 1/10W SMD	S	AA	AA
	R 0719	VRD-RA2HD181J	RES 180 OHM 5% 1/2W	S	AA	AA
	R 0720	VRD-RA2BE473J	RES 47KOHM 5% 1/8W	S	AA	AA
△	R 0721	VRC-UA2HG825K	SOLID R 8,2MOHM 10% 1/2W	S	AA	AA
△	R 0722	VRC-UA2HG825K	SOLID R 8,2MOHM 10% 1/2W	S	AA	AA
	R 0724	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0725	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0729	VRS-TQ2BD472J	OX RE 4,7KOHM 5% 1/8W SMD	S	AA	AA
	R 0730	RR-XZ0204BMZZ	FUS RES 2R2 TAP 5% 1/2W	S	AA	AB
	R 0733	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0735	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0737	RR-XZ0100BMZZ	FUS RES 1R0 TAP 5% 1/3W	S	AA	AB
	R 0801	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0802	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0803	VRS-TV1JD4R7J	2125 4,7 OHM 5% 1/10W SMD	S	AA	AA
	R 0804	VRS-TV1JD393J	2125 39KOHM 5% 1/10W SMD	S	AA	AA
	R 0805	VRS-TV1JD395J	2125 3,9MOHM 5% 1/10W SMD	S	AA	AA
	R 0806	VRS-TV1JD2R2J	2125 2,2 OHM 5% 1/10W SMD	S	AA	AA
	R 0807	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0809	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0810	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0814	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0815	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0816	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0825	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
	R 0834	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0836	VRD-RA2BE681J	RES 680 OHM 5% 1/8W	S	AA	AA
	R 0837	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0838	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S	AA	AA
	R 0839	VRS-TV1JD823J	2125 82KOHM 5% 1/10W SMD	S	AA	AA
	R 0901	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0902	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0903	VRD-RA2BE470J	RES 47 OHM 5% 1/8W	S	AA	AA
	R 0904	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 1001	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1002	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1003	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
	R 1004	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
	R 1005	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1006	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1007	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1008	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1012	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1013	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
	R 1014	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 1015	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA

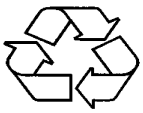
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 1016	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1017	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 1018	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 1021	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 1022	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1024	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1026	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1027	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1028	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1029	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1030	VRD-RA2BE392J	RES 3,9KOHM 5% 1/8W	S	AA	AA
	R 1031	VRD-RA2BE103J	RES 10KOHM 5% 1/8W	S	AA	AA
	R 1032	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1033	VRD-RA2BE104J	RES 100KOHM 5% 1/8W	S	AA	AA
	R 1034	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 1035	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 1037	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1038	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1039	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1041	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1048	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
	R 1049	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
	R 1056	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1058	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1059	VRD-RA2HD472J	RES 4.7KOHM 5% 1/2W	S	AA	AA
	R 1066	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1069	VRD-RA2BE472J	RES 4,7KOHM 5% 1/8W	S	AA	AA
	R 1072	VRS-TV1JD105J	2125 1MOHM 5% 1/10W SMD	S	AA	AA
	R 1073	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1075	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1077	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1078	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 1080	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1081	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1082	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1083	VRD-RA2BE331J	RES 330 OHM 5% 1/8W	S	AA	AA
	R 1088	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1089	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1090	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1091	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 1092	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	RJ 0001	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0002	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0003	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0005	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0006	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0007	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0008	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0009	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0010	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0011	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0015	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0017	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0018	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0019	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0021	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0022	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0023	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0024	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0025	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0026	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0028	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0029	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0031	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0034	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0035	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0037	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0040	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0041	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0042	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	RJ 0043	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0044	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0045	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0047	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	RJ 0049	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0053	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0065	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0066	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0067	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0068	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0070	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0071	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0072	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0074	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0082	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0112	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0120	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0122	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0123	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0124	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0125	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0128	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0132	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0136	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0138	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0141	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0142	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0146	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0147	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0150	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0151	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0152	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0154	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0155	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0156	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	RJ 1031	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
			MISCELLANEOUS PARTS			
△	F 0701	QFS-C3226CEZZ	FUSE T3.15AH 250V	S	AC	AE
	FB 0201	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0301	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0304	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 1001	RBLN-0020CEZZ	BALUNE	S	AA	AB
	FB 1003	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FH 1001	QFSHD1001BMZZ	FUSE HOLD.EYF52BC=PANASON	S	AA	AA
	FH 1002	QFSHD1002BMZZ	FUSE HOLD.EYF52BC=PANASON	S	AA	AA
	RMC0001	RRMCU0222CEZZ	R/C RECEIVER	S	AD	AG
△	S 0701	QSW-P0612CEZZ	POWER SWITCH ESB92D41B PANASONIC	S	AC	AH
	S 1001	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	S 1002	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	S 1003	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	S 1004	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	(H)	QCNW-2836BMZZ	WIRE (H) 20" 21"	S	AA	AD
	(K)	QCNW-2837BMZZ	WIRE (K) 20" 21"	S	AA	AE
	L3	QCNW-3056BMZZ	WIRE BETWEEN GNDS CA-1 21	S	AA	AB
		QSOCZ2107BMZZ	SOCKET	S	AF	AE
		CRDAR5510BMV5	RADIATOR SET POWER	S	--	--
		CRDAR5525BMV0	RADIATOR SET	S	--	--
*	F	CSOCN0460BMV4	DEFLEXION WIRE	S	AG	
	PWB-B		**SOCKET UNIT**			
			TRANSISTORS			
	Q 0870	RH-TX0181BMZZ	TRT BF422 TOSHIBA	S	AA	AC
	Q 0871	RH-TX0181BMZZ	TRT BF422 TOSHIBA	S	AA	AC
	Q 0872	RH-TX0181BMZZ	TRT BF422 TOSHIBA	S	AA	AC
	Q 0883	RH-TX0180BMZZ	TRT BF421 TOSHIBA	S	AA	AB
	Q 0885	RH-TX0180BMZZ	TRT BF421 TOSHIBA	S	AA	AB
	Q 0887	RH-TX0180BMZZ	TRT BF421 TOSHIBA	S	AA	AB
			DIODES			
	D 0811	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
	D 0812	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
	D 0880	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
	D 0881	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
	D 0882	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
			COILS			
	L 0881	VP-CF120K0000	PEAK COIL 12UH 10%	S	AB	AC
			CAPACITORS			
	C 0871	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S	AA	AB
	C 0872	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S	AA	AB
	C 0873	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S	AA	AB
	C 0874	VCKYPA2HB102K	CERAM C 1NF 10% 500V	S	AA	AA
	C 0876	VCKYPB3DE472Z	C DE1110-1E472Z2K MURATA	S	AA	AC
	C 0878	VCEAGA2DW106M	ELEC C 10UF 20% 200V	S	AA	AC
	C 0880	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S	AA	AB
	C 0881	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S	AA	AB
	C 0882	VCCSTV1HL471J	CERAM C 470PF 50V 2125SMD	S	AA	AB
			RESISTORS			
	R 0879	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0880	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0881	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0882	VRS-VV3DB153J	MET OX RES 15KOHM 5% 2W	S	AA	AA
	R 0883	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S	AA	AA
	R 0884	VRS-VV3DB153J	MET OX RES 15KOHM 5% 2W	S	AA	AA
	R 0885	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S	AA	AA
	R 0886	VRS-VV3DB153J	MET OX RES 15KOHM 5% 2W	S	AA	AA
	R 0887	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S	AA	AA
	R 0892	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0893	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0894	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0895	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0896	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 0899	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	RJ 0081	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
			MISCELLANEOUS PARTS			
⚠		QSOCV0103BMZZ	SOCK HPS1521-014408 HOSHI	S	AD	AG
		QTIPM0017CEFM	TIP	S	AA	AA
			MISCELLANEOUS PARTS			
⚠		QACCZ2100BMSA	AC CORD	S	AH	AR
		VSP0010PBZ7WA	SPEAKER 16 OHM 4W DAIWA	S	AD	AL
		RRMCG1060BMSA	R/C 37DT25S	S	AM	AU
		TINS-6986BMN0	OWNERS MANUAL	S	AB	AF
		QEARC0009BMZZ	C.EARTH ELECTROMONTAJES	S	AB	AF
			CABINET PARTS			
	1	CCABA1325BMV0	CABINET SET	S	AT	BE
	1.1	HBDGB3509BMSB	SHARP BADGE (SILVER)	S	AA	AC
	1.2	HDECQ0023BMSA	DECORATION R/C	S	AA	AB
	1.3	HDECQ0024BMSA	DECORATION LED	S	AA	AB
	1.4	JBTN-1041BMSB	UP/DOWN BUTTON 21" (GRAY 045)	S	--	--
	1.5	JBTN-1040BMSB	POWER BUTTON 21" (GRAY 045)	S	--	--
⚠	2	GCABB1069BMKA	REAR CABINET	S	AS	AZ
	* THESE PARTS ARE FOR PHILIPS CRT ONLY					



SHARP



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